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EXHIBIT 2

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EXHIBIT D

Richard Kadrey, et al. v. Meta Platforms, Inc. Highly Confidential - Attorneys' Eyes Only

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Page 1
                                                                                            Page 3
            UNITED STATES DISTRICT COURT
                                                     1 APPEARANCES
           NORTHERN DISTRICT OF CALIFORNIA
                                                     2 ON BEHALF OF PLAINTIFFS SARAH SILVERMAN,
              SAN FRANCISCO DIVISION
                                                        CHRISTOPHER GOLDEN AND RICHARD KADREY:
  Richard Kadrey, et al.,
                                                           Christopher K.L. Young, Esquire
  Individual and Representative )
                                                     6
                                                           Joseph Saveri Law Firm
  Plaintiffs.
                                 CASE NO.
                                                           601 California Street, Suite 1505
                                 3:23-cv-03417-VC
                                                     8
                                                           San Francisco, California 94108
          -against-
                                                           PHONE: 415.500.6800
                                                     9
                                                           E-MAIL: Cyoung@saverilawfirm.com
  Meta Platforms, Inc.,
                                                    10
                                                                      -AND-
     Defendant.
                                                           Holden Benon, Esquire
                                                    11
                                                           Joseph Saveri Law Firm
            *** HTGHLY CONFIDENTIAL ***
                                                    12
                                                           601 California Street, Suite 1505
              ATTORNEYS' EYES ONLY
                                                           San Francisco, California 94108
            VIDEO-RECORDED DEPOSITION OF
                                                    13
                                                           PHONE: 415.500.6800
                 MELANIE KAMBADUR
                                                           E-MAIL: Hbenon@saverilawfirm.com
                                                    14
                                                                      -AND-
                   Cooley, LLP
                                                           Matthew Butterick, Esquire
                                                    15
                 55 Hudson Yards
                                                           Matthew Butterick Attorney at Law
                                                    16
             New York, New York 10001
                                                           1920 Hillhurst Avenue, Suite 406
                                                    17
                                                           Los Angelos, California 90027
                    09/17/2024
                                                           PHONE: 213.422.4871
                 9:07 a.m. (EDT)
                                                    18
                                                           E-MAIL: Mb@buttericklaw.com
                                                       ON BEHALF OF DEFENDANT:
                                                    19
           REPORTED BY: MONIQUE CABRERA
                                                           Mark Weinstein, Esquire
                                                           Cooley LLP
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                                                           3175 Hanover Street
               DIGITAL EVIDENCE GROUP
                                                    21
                                                           Palo Alto, CA 94304-1130
            1730 M Street, NW, Suite 812
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               Washington, D.C. 20036
                                                    22
                                                           E-MAIL: Mweinstein@cooley.com
                  (202) 232-0646
                                        Page 2
                                                                                            Page 4
                                09/17/2024
1
                                                          APPEARANCES (CONT'D)
2
                                9:07 a.m. (EDT)
                                                          ON BEHALF OF DEFENDANT:
                                                      3
                                                           Liz Stameshkin, Esquire
      VIDEO-RECORDED DEPOSITION OF MELANIE KAMBADUR,
                                                      4
                                                           Cooley LLP
   held at Cooley, LLP, 55 Hudson Yards, New York,
                                                      5
                                                           3175 Hanover Street
 6
   New York, before Monique Cabrera, Shorthand
                                                      6
                                                           Palo Alto, CA 94304-1130
   Reporter, and Notary Public of the State of New
                                                      7
                                                           Phone: 650.843.5121
8
   York.
                                                      8
                                                           E-MAIL: Lstameshkin@cooley.com
9
                                                      9
                                                     10
10
                                                          ALSO PRESENT:
11
                                                     11
                                                          Daniel Ortega, Legal Videographer - Digital
12
                                                     12
                                                          Evidence Group
                                                     13
                                                          Nikki Vo, In-house counsel for Meta
13
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1	THE VIDEOGRAPHER: We are now on the	1	A. Yes. My full name is
2	record. My name is Daniel Ortega and I am	2	Melanie Rae Kambadur.
3	the legal videographer for Digital Evidence	3	Q. And your address was
4	Group.	4	?
5	Today's date is September 17, 2024,	5	A. Yes.
6	and the time is 9:07 a.m. This video	6	Q. Okay. And where are you presently
7	deposition is being held at 55 Hudson Yards,	7	employed?
8	New York, New York, in the matter of Kadrey,	8	A. At Meta.
9	et al. versus Meta Platforms, Inc.	9	Q. Meta Platforms?
10	The deponent today is	10	A. Yes.
11	Melanie Kambadur.	11	Q. Okay. And what is your current
12	Counsel, please identify yourselves	12	position at Meta?
13	for the record.	13	A. I'm a research engineering manager.
14	MR. YOUNG: Good morning. My name	14	Q. Is there a particular division you
15	is Christopher Young on behalf of plaintiffs,	15	work for?
16	Sarah Silverman, Christopher Golden, and	16	A. I work in the gen AI org.
17	Richard Kadrey. With me are Holden Benon and	17	(Reporter clarification.)
18	Matthew Butterick.	18	THE WITNESS: Gen AI.
19	MR. WEINSTEIN: Mark Weinstein from	19	BY MR. YOUNG:
20	the law firm of Cooley, LLP. I'm here with	20	Q. And how long have you been in that
21	Liz Stameshkin, also from the Cooley law	21	role?
22	firm. And Nikki Vo, who is in-house legal at	22	A. I have been a research manager at
	inin inin inini io, inio io in nonco regular		
	Page 10		Page 12
1	Meta, for the defendant and the witness.	1	Meta for three years in since March.
2	THE VIDEOGRAPHER: The court	2	Subtracting six. Six months. And in the gen AI
3	reporter today is Monique Cabrera and	3	organization for about the last year and a half.
4	will now swear in.	4	Q. I'm sorry. You said you were in the
5	MELANIE KAMBADUR, called as a witness, having	5	gen AI division for the last year and a half?
6	been first duly sworn by a Notary Public of the	6	A. Yes. Approximately.
7	State of New York, was examined and testified as	7	Q. And what division were you in before
8	follows:	8	you were in the gen AI division?
9	THE WITNESS: Yes, I do.	9	A. In a group called FAIR.
10	COURT REPORTER: Can you state your	10	Q. And that's Facebook AI Research?
11	name and address for the record.	11	A. Yes. I believe they changed it to
12	THE WITNESS: Melanie Kambadur. And	12	Fundamental AI Research at some point as well.
13	address?	13	Q. But when you were there, it was
14	COURT REPORTER: Yes.	14	Facebook AI Research?
15	THE WITNESS: 14 West 76th Street,	15	A. I don't recall exactly when they
16	Apartment 2F, New York, New York 10023.	16	flipped the name.
17	EXAMINATION	17	Q. Okay. Have you ever had your
18	BY MR. YOUNG:	18	deposition taken before?
19	Q. Good morning, Ms. Kambadur.	19	A. No.
20	A. Good morning.	20	Q. All right. And you may have covered
21	Q. So can you please state your full	21	some of this with your counsel in preparation for
22	name for the record?	22	today. I want to but I want to just go over

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	Page 13		Page 15
1	some basic ground rules of deposition today.	1	A. Yes.
2	If you don't understand a question,	2	Q. Okay. Are you represented by
3	please let me know and I will try to rephrase it.	3	counsel here today?
4	Otherwise, I will assume you understood the	4	A. Yes.
5	question; is that fair?	5	Q. Who are your counsel?
6	A. Yes.	6	MR. WEINSTEIN: Mark Weinstein for
7	Q. If you need to take a break, please	7	Cooley and the Cooley law firm.
8	let me know. As long as a question is not	8	BY MR. YOUNG:
9	pending, I will do my best to accommodate; is	9	Q. Mr. Weinstein is representing you?
10	that fair?	10	A. Yes.
11	A. Yes.	11	Q. Do you understand him to be
12	Q. And you took an oath today, right?	12	representing you or Meta?
13	A. Yes.	13	A. Both.
14	Q. Okay. To tell the truth?	14	Q. And do you have any another counsel
15	A. Yes.	15	representing you today?
16	Q. You understand that even though we	16	A. Yes.
17	are here in a conference room taking a	17	MR. WEINSTEIN: Let record reflect
18	deposition, this deposition is being conducted as	18	that the witness is gesturing towards Nikki
19	if you were testifying in court before a judge	19	Vo, in-house legal for Meta.
20	and a jury?	20	BY MR. YOUNG:
21	Do you understand that?	21	Q. Were you also gesturing to
22	A. Yes.	22	Ms. Stameshkin?
	Page 14		Page 16
1	Page 14 Q. Is there anything we should know	1	Page 16 A. Yes.
1 2		1 2	
	Q. Is there anything we should know		A. Yes.
2	Q. Is there anything we should know about you that might inhibit your ability from	2	A. Yes.Q. Are you paying for your counsel to
2	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of	2	 A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today?
2 3 4	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability?	2 3 4	A. Yes.Q. Are you paying for your counsel to appear here today?A. No.
2 3 4 5	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No.	2 3 4 5	 A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to
2 3 4 5 6	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully	2 3 4 5 6	 A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today?
2 3 4 5 6 7	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability?	2 3 4 5 6 7 8	 A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the
2 3 4 5 6 7 8 9	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not.	2 3 4 5 6 7 8	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no."
2 3 4 5 6 7 8 9 10	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of	2 3 4 5 6 7 8 9 10	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes.
2 3 4 5 6 7 8 9	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not.	2 3 4 5 6 7 8 9	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no."
2 3 4 5 6 7 8 9 10	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No.	2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times?
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a	2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can
2 3 4 5 6 7 8 9 10 11 12 13	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness,	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No. Q. And do you understand that your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel. A. We had two prep meetings.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No. Q. And do you understand that your testimony today is being recorded by video?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel. A. We had two prep meetings. BY MR. YOUNG:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No. Q. And do you understand that your testimony today is being recorded by video? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel. A. We had two prep meetings. BY MR. YOUNG: Q. Who did you meet with, without
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No. Q. And do you understand that your testimony today is being recorded by video? A. Yes. Q. And that your testimony is being	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel. A. We had two prep meetings. BY MR. YOUNG: Q. Who did you meet with, without divulging the substance of your conversation with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Is there anything we should know about you that might inhibit your ability from testifying today truthfully and to the best of your ability? A. No. Q. So, for example, you're not on any medication or any alcohol that might affect your ability to answer questions here today truthfully and to best of your ability? A. No, I'm not. Q. And have you ever been convicted of a felony? A. No. Q. Have you ever been convicted of a crime that involves an element of untruthfulness, for example, fraud, embezzlement? A. No. Q. And do you understand that your testimony today is being recorded by video? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. Are you paying for your counsel to appear here today? A. No. Q. Did you prepare to testify today? A. What do you mean by that? Q. Did you meet with your attorneys to prepare for your testimony here today? MR. WEINSTEIN: You can answer the question "yes" or "no." A. Yes. BY MR. YOUNG: Q. How many times? MR. WEINSTEIN: Again, you can answer this line of questioning, just don't reveal the substance of any conversations you may have had with counsel. A. We had two prep meetings. BY MR. YOUNG: Q. Who did you meet with, without

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1	A. I met with Liz Stameshkin and Mark	1	MR. WEINSTEIN: You can answer the
2	Weinstein, Nikki Vo and a couple other folks from	2	question "yes" or "no."
3	our Meta legal counsel.	3	A. Yes.
4	Q. Were any non-attorneys present at	4	BY MR. YOUNG:
5	those preparation meetings?	5	Q. If yes, what about your memory was
6	A. Not that I know of.	6	refreshed in reviewing that material?
7	Q. Do you remember the names of the	7	A. Essentially I just recall some
8	other individuals at these prep sessions?	8	documents that we had written.
9	A. I remember Michelle Woodhouse. I	9	Q. Did your review of that material
10	don't recall the others.	10	remind you of any individuals that you have
11	Q. Michelle Woodhouse, do you	11	conversed with in the past?
12	understand her to be legal counsel at Meta?	12	MR. WEINSTEIN: Object to form.
13	A. Yes.	13	Vague.
14	Q. Did you speak about this deposition	14	You can answer.
15	with anyone but legal counsel?	15	A. Yes.
16	A. Yes. I told my boss and one or two	16	BY MR. YOUNG:
17	members of my team that I wouldn't be here today.	17	Q. Any specific conversations you may
18	Q. Did you talk about any of the	18	have had with people?
19	substance of your testimony today with anyone by	19	A. Yes.
20	your counsel?	20	Q. Projects you may have worked on?
21	A. No.	21	A. I mean, yes, but it's not like I
22	Q. Who is your boss currently?	22	recalled the projects beforehand.
	Page 18		Page 20
1	Page 18 A. Manohar Baluri.	1	Page 20 MR. YOUNG: Counsel, I am going to
1		1 2	
	A. Manohar Baluri.		MR. YOUNG: Counsel, I am going to
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2 3 4	 A. Manohar Baluri. Q. Can you please spell her name? A. His name is M-A-N-O-H-A-R; last name B-A-L-U-R-I. 	2 3 4	MR. YOUNG: Counsel, I am going to make a request under FR 8612 for the materials that refreshed the witness's recollection.
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	Page 21			Page 23
1	BY MR. YOUNG:	1	Α.	Some of the work was in natural
2	Q. Ms. Kambadur, I do want to I'm	2		e processing, yes.
3	sorry. Is it Kambadur or Kambadur?	3	0.	As well as in search?
4	A. Kambadur.	4	A.	Yes.
5	Q. Kambadur. I apologize for	5		Did you start at Meta at in March
6	mispronouncing your name.	6	_	does that sound about right?
7	So you hold a Ph.D.	7		That's sounds correct.
8	in computer science from Columbia University here	8	0.	I believe we covered this before but
9	in New York City, right?	9	_	rted in the Facebook AI Research group,
10	A. Yes.	10	right?	8 -17
11	Q. You also hold an MS in computer	11	_	Yes.
12	science from Columbia as well?	12	0.	Do you remember who was your direct
13	A. Yes.	13	•	at that time?
14	Q. You hold a BS in computer science	14	-	I had more than one direct report.
15	from Indiana University, am I correct?	15	Q.	Do you recall how many?
16	A. That's correct.	16	A.	Not precisely, no.
17	Q. You graduated from Indiana	17		Do you recall how many people were
18	University with highest honors?	18	_	AIR group?
19	A. I don't recall.	19	A.	No. It changed over time as well.
20	Q. It was a very impressive GPA,	20	Q.	Would you say more or less a dozen?
21	something like 3.92, right?	21	Α .	More.
22	A. I don't recall.	22	Q.	More or less than 20?
				Note of less than 20.
	Page 22			Page 24
1	Q. Now, when did you start working at	1	A.	More.
2	Meta?	2	•	When did you obtain your Ph.D. from
			Q.	
3	A. I believe I am trying to remember	3	Q. Columl	pia?
3 4	if it was March of 2021 or March of 2020.	3 4	_	pia? I believe January 2016.
	if it was March of 2021 or March of 2020. March '21, I think.		Columb A. Q.	oia? I believe January 2016. While you were a Ph.D. candidate, do
4	if it was March of 2021 or March of 2020. March '21, I think. Q. Before that you worked at a	4	Columb A. Q.	pia? I believe January 2016.
4 5	if it was March of 2021 or March of 2020. March '21, I think.	4 5	A. Q. you rec	oia? I believe January 2016. While you were a Ph.D. candidate, do
4 5 6	if it was March of 2021 or March of 2020. March '21, I think. Q. Before that you worked at a start-up, right? A. Correct.	4 5 6	A. Q. you recemploy	Dia? I believe January 2016. While you were a Ph.D. candidate, do all the number of internships or other ment strike that. While you were at Ph.D. at Columbia,
4 5 6 7	if it was March of 2021 or March of 2020. March '21, I think. Q. Before that you worked at a start-up, right? A. Correct. Q. It was a podcast company, podcast	4 5 6 7	A. Q. you recemploy	Dia? I believe January 2016. While you were a Ph.D. candidate, do all the number of internships or other ment strike that.
4 5 6 7 8	if it was March of 2021 or March of 2020. March '21, I think. Q. Before that you worked at a start-up, right? A. Correct.	4 5 6 7 8	A. Q. you recemploy	Joia? I believe January 2016. While you were a Ph.D. candidate, do all the number of internships or other ment strike that. While you were at Ph.D. at Columbia, a hold a number internships?
4 5 6 7 8 9	if it was March of 2021 or March of 2020. March '21, I think. Q. Before that you worked at a start-up, right? A. Correct. Q. It was a podcast company, podcast	4 5 6 7 8 9	Columl A. Q. you recemploy did you A. Q.	Dia? I believe January 2016. While you were a Ph.D. candidate, do all the number of internships or other ment strike that. While you were at Ph.D. at Columbia, hold a number internships? Yes. And while you were a Ph.D.
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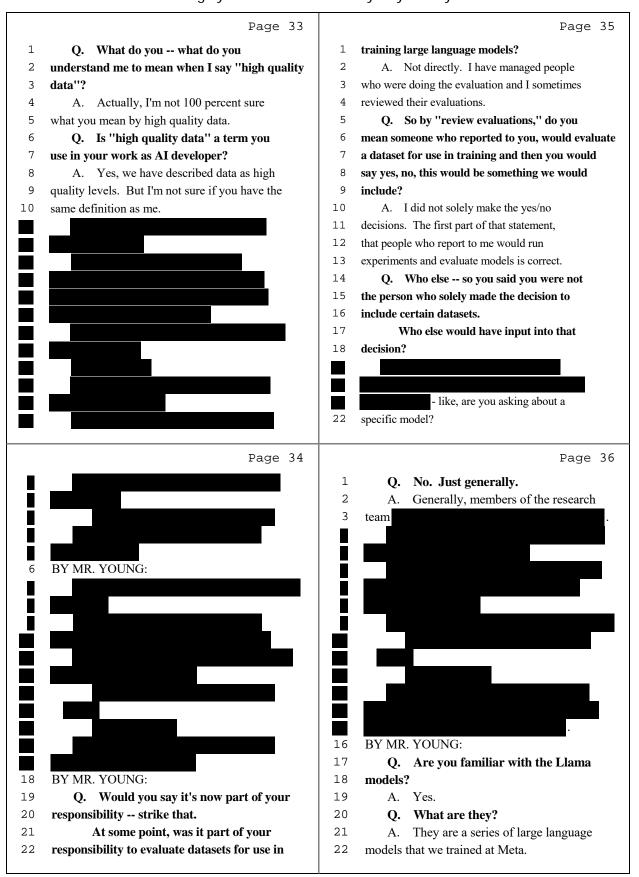
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	Page 25		Page 27
1	definition, but when an AI model produces content	1	by the word "weights" when you said "learned
2	as opposed to just classifying or producing like,	2	numeric weights"?
3	say, a single number.	3	A. I'm not sure how to define it
4	Q. I'm sorry. Did you say producing a	4	precisely. But essentially, numeric a set of
5	single number?	5	numbers that we learn that define the model's
6	A. Gen AI would produce more open-ended	6	knowledge.
7	content than other forms of AI which may be, for	7	Q. Did FAIR have a mission statement
8	example, classifying.	8	when you joined it?
9	Q. Would you consider large language	9	A. That sounds familiar, yes.
10	models to be a type of generative AI?	10	Q. Do you recall what that mission
11	A. Yes.	11	statement was?
12	Q. What about image diffusion models?	12	A. No.
13	A. Yes.	13	Q. And do you have any general
14	Q. So when you first started at Meta,	14	recollection of what it was?
15	you were a research manager with the FAIR group,	15	MR. WEINSTEIN: Object to form.
16	right?	16	A. Not really. I I would have to
17	A. Yes.	17	look it up.
18	Q. What were your principal job	18	BY MR. YOUNG:
19	responsibilities as a research manager for the	19	Q. Okay. So at some time at FAIR, did
20	FAIR group?	20	you start working on large language models?
21	A. I was supporting a team of research	21	A. Yes.
22	engineers.	22	Q. And how long were you in FAIR when
	Page 26		Page 28
1	Q. To develop large language models?	1	you started working on large language models?
2	A. When I first started, we were	2	A. Are how are we defining me
3	working mostly on dialog models.	3	working on large language models?
4	Q. What is a dialog model?	4	Q. So when you were first assigned to
5	A. Models specifically tuned to produce	5	work on a project that could relate to a large
6	chat or dialog.	6	language model?
7	Q. And when you say the word "model,"	7	A. I'm not sure I was ever really
8	do you say are you meaning some sort of	8	assigned, precisely.
9	generative AI system?	9	Q. So how was work divided how was
10	A. I'm not sure what you mean by	10	work assigned at FAIR?
11	"generative AI system."	11	A. When I first joined, it was very
12	Q. So what what do you mean when you	12	bottoms up and researchers selected the projects
13	say ''model''?	13	that they worked on.
14	A. I mean a set of learned numeric	14	Q. So at some point, did you become
15	weights that can take input and produce output.	15	interested in working on a project that that
16	Q. And what is a so you said the	16	could be useful for a large language model?
17	phrase "learned numeric weights."	17	A. A project sorry. A project that
18	What is a weight file?	18	could be useful for a large language model?
19	MR. WEINSTEIN: Object to form.	19	Q. Large language
20	A. I'm not sure what you mean exactly.	20	A. What do you mean by that?
21	BY MR. YOUNG:	21	Q. For example, developing a large
22	Q. Can you define for me what you meant	22	language model.

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1	A. I yes, I I guess I became	1	"lossy compression"?
2	interested in it.	2	A. Yes.
3	Q. And do you remember about how long	3	Q. Would it be fair to say that
4	you were with the FAIR group when that first	4	generative AI models and lossy compressed
5	happened?	5	portions of their dataset?
6	A. I don't recall when I personally	6	MR. WEINSTEIN: Object to form.
7	became interested.	7	A. I'm not sure that's how I would
8	Q. And what is a large language model?	8	define it.
9	A. It's a model, as we discussed, which	9	BY MR. YOUNG:
10	has a large number of parameters, a large	10	Q. Have others that you've worked with
11	capacity to learn and is generally text-based	11	at Meta used the term "lossy compression" to
12	image training data inputs and outputs.	12	describe AI models?
13	Q. So you used the word "training	13	A. No idea. I have not specifically
14	data." What is training data?	14	heard it, that I recall.
15	A. I mean, it's data that we use to	15	Q. Would you say training data is
16	train a model.	16	important in developing an AI model?
17	Q. And what do you mean by "training a	17	A. Yes.
18	model"?	18	Q. Why?
19	A. The model sees the data, updates its	19	A. Training data is how the model
20	weights.	20	learns new information.
21	Q. So you used that the word "weights"	21	Q. Is it important to curate the
22	again.	22	training data that goes into a model?
	agam.		
	Page 30		Page 32
1	So do weights affect how a model	1	MR. WEINSTEIN: Object to form.
2	behave?	2	Vague.
3	A. What do you mean, how a model	3	A. What do you mean by "important"?
4	behaves?	4	BY MR. YOUNG:
5	Q. So what is the purpose of weights in	5	Q. Have you selected training data that
6	a generative AI model?	6	is fed into a model?
7	A. It's a representation to hold	7	A. By "selected" do you mean
8	knowledge of the model.	8	specifically what yeah.
9	Q. And when you say "knowledge," do you	9	What do you mean by "selecting"?
10	mean the information contained within the model?	10	Q. So does the training data used to
11	A. What do you mean by information	11	develop a model affect how a model would perform?
12	contained within the model?	12	A. Yes.
13	Q. Do you mean the data that the model	13	Q. So you wouldn't feed just any data
14	was trained on when you say the word "knowledge"?	14	into a model, use my data to train a model,
15	A. No, not exactly. It doesn't contain	15	right?
16	the data directly in those weights. It contains	16	A. Someone could.
17	learned relations, for example.	17	Q. But you wouldn't, right?
18	Q. Perhaps approximation's may be a	18	A. I guess it dep would depend on
19	better word?	19	the purpose. But generally, we do select
20	A. Not sure. What do you mean by	20	specific data, yes.
		I	
21	"approximations"?	21	O. High quality data?
21 22	"approximations"? Q. Are you familiar with the phrase	21 22	Q. High quality data?A. Generally, yes.

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	Page 37		Page 39
1	Q. How many Llama models are there?	1	of models, does Meta usually release a research
2	A. What do you mean exactly by that?	2	paper with that model?
3	Do you mean how many models have ever been	3	A. Three out of the four times we
4	trained or do you mean how many models have there	4	released a research paper so far.
5	been released?	5	Q. Does that correspond with each
6	Q. How many models have been released?	6	series of models?
7	A. We have had, to my memory, four	7	A. Roughly.
8	series of models, each with multiple sized	8	Q. So, for example, when the Llama 1
9	releases.	9	series of models was released, there was research
10	Q. By series of models, for example,	10	paper released with it?
11	are you familiar with the Llama 1 series of	11	A. Yes.
12	models?	12	Q. Are you familiar with that research
13	A. Yes.	13	paper?
14	Q. Back then it was just called Llama,	14	A. Somewhat.
15	right?	15	Q. Have you read it?
16	A. We did call that model Llama in the	16	A. I believe I have read it, at least
17	paper.	17	parts of it.
18	Q. Was an early name for the Llama	18	Q. We are going to hand you what's been
19	model Genesis?	19	premarked as Plaintiffs' 1.
20	A. There was an internal name for Llama	20	(Whereupon, Kambadur Exhibit 1,
21	of Genesis, yes.	21	"LLaMA: Open and Efficient Foundation
22	Q. And the Genesis team, they were	22	Language Models," was marked for
	, ,		5 5
	Page 38		Page 40
1	Page 38 individuals who worked with Llama mentioned	1	Page 40
1 2		1 2	_
	individuals who worked with Llama mentioned		identification.)
2	individuals who worked with Llama mentioned what would become the Llama models?	2	identification.) BY MR. YOUNG:
2	individuals who worked with Llama mentioned what would become the Llama models? A. I can't remember if we referred to	2 3	identification.) BY MR. YOUNG: Q. It's a document bearing Bates Stamp
2 3 4	individuals who worked with Llama mentioned what would become the Llama models? A. I can't remember if we referred to them as Genesis team or not.	2 3 4	identification.) BY MR. YOUNG: Q. It's a document bearing Bates Stamp Meta Kadrey 00070 to 00078 beginning Bates.
2 3 4 5	individuals who worked with Llama mentioned what would become the Llama models? A. I can't remember if we referred to them as Genesis team or not. Q. Do you recall who was on the Genesis	2 3 4 5	identification.) BY MR. YOUNG: Q. It's a document bearing Bates Stamp Meta Kadrey 00070 to 00078 beginning Bates. Ms. Kambadur, do you recognize this
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	individuals who worked with Llama mentioned what would become the Llama models? A. I can't remember if we referred to them as Genesis team or not. Q. Do you recall who was on the Genesis team? A. I recall some of the individuals. Q. For example, Mr. Hugo Touvron? A. Yes. Q. Touvron, T-O-U-V-R-O-N. What about Ms. Joelle Pineau? A. I am sorry, who? Q. Joelle Pineau? A. She was not directly on that team. Q. What about Luke Zettlemoyer? A. He was not directly on that team but may have been consulted by that team. I am not sure. Q. Z-E-T-T-L-E-M-O-Y-E-R.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	identification.) BY MR. YOUNG: Q. It's a document bearing Bates Stamp Meta Kadrey 00070 to 00078 beginning Bates. Ms. Kambadur, do you recognize this document? A. I recognize the paper, yes. Q. And this is a document titled "LLaMA: Open and Efficient Foundation Language Models"; is that correct? A. That's correct. Q. Was this the paper that was released with the Llama 1 series of models? A. It appears to be. Q. Now, is it Meta's regular business practice to produce research papers contemporaneously with the model series release? MR. WEINSTEIN: Object to form. You can answer. A. I am not sure I can speak more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	individuals who worked with Llama mentioned what would become the Llama models? A. I can't remember if we referred to them as Genesis team or not. Q. Do you recall who was on the Genesis team? A. I recall some of the individuals. Q. For example, Mr. Hugo Touvron? A. Yes. Q. Touvron, T-O-U-V-R-O-N. What about Ms. Joelle Pineau? A. I am sorry, who? Q. Joelle Pineau? A. She was not directly on that team. Q. What about Luke Zettlemoyer? A. He was not directly on that team but may have been consulted by that team. I am not sure. Q. Z-E-T-T-L-E-M-O-Y-E-R. What about Tim Dettmers?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	identification.) BY MR. YOUNG: Q. It's a document bearing Bates Stamp Meta Kadrey 00070 to 00078 beginning Bates. Ms. Kambadur, do you recognize this document? A. I recognize the paper, yes. Q. And this is a document titled "LLaMA: Open and Efficient Foundation Language Models"; is that correct? A. That's correct. Q. Was this the paper that was released with the Llama 1 series of models? A. It appears to be. Q. Now, is it Meta's regular business practice to produce research papers contemporaneously with the model series release? MR. WEINSTEIN: Object to form. You can answer.

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			1
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1	BY MR. YOUNG:	1	wouldn't say I know each of them well.
2	Q. For Llama 1, Llama 2 and Llama 3,	2	Q. Do you know who Hugo Touvron is?
3	correct, for each of those series of models?	3	A. Yes.
4	A. We released for Llama 1, Llama 2 and	4	Q. Does he work for Meta?
5	I think we called it Llama 3.1, but I don't	5	A. Yes.
6	recall what it was called internally.	6	Q. What is his role at Meta?
7	Q. Do you know if this paper was	7	A. He is a research scientist.
8	contemporaneously released with the Llama 1	8	Q. Did he have principal responsibility
9	strike that.	9	for developing the Llama 1 series of models?
10	Do you know if this paper was	10	MR. WEINSTEIN: Object to form.
11	released around the same time as the Llama 1	11	Vague.
12	series model was released?	12	You can answer.
13	A. I believe so.	13	A. What do you mean by "principal
14	Q. That was some time in February of	14	responsibility"?
15	2023; is that correct?	15	BY MR. YOUNG:
16	A. That sounds right but I don't recall	16	Q. Did he have managerial
17	the exact month.	17	responsibility over the development of the Llama
18	Q. Now, did you have any role in	18	1 series of models?
19	drafting this paper?	19	A. No.
20	A. I don't believe so.	20	Q. Who would that person be?
21	Q. Did you see any drafts of this	21	A. There were multiple managers.
22	paper?	22	Q. How many?
	puper.		Q- 110 // 1111111, 1
	Page 42		Page 44
1	A. Yes.	1	A. I don't recall precisely.
2	Q. Did you see any drafts of this paper	2	Q. Can you give me their names?
3	that refer to strike that.	3	
		-	A. I recall Aurelien Rodriguez and
4	Was there an early draft of this	4	
4 5	Was there an early draft of this paper that did not use the word "Llama" but used		A. I recall Aurelien Rodriguez and
	-	4	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper.
5	paper that did not use the word "Llama" but used	4 5	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of
5 6	paper that did not use the word "Llama" but used "Genesis" instead?	4 5 6	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team.
5 6 7	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall.	4 5 6 7	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct
5 6 7 8	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1	4 5 6 7 8	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right?
5 6 7 8 9	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1 series of models?	4 5 6 7 8 9	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right? A. What do you mean by a "direct role."
5 6 7 8 9	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1 series of models? A. Not directly.	4 5 6 7 8 9	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right? A. What do you mean by a "direct role." Q. Well, you said you didn't work in
5 6 7 8 9 10	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1 series of models? A. Not directly. Q. What do you mean by "not directly"?	4 5 6 7 8 9 10	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right? A. What do you mean by a "direct role." Q. Well, you said you didn't work in the Llama 1 series of models directly.
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5 6 7 8 9 10 11 12	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1 series of models? A. Not directly. Q. What do you mean by "not directly"? A. For example, I supported Naman Goyal, who was a co-author on this paper.	4 5 6 7 8 9 10 11 12 13	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right? A. What do you mean by a "direct role." Q. Well, you said you didn't work in the Llama 1 series of models directly. Do you recall that? A. I mean that I was not implementing or running experiments myself.
5 6 7 8 9 10 11 12 13 14	paper that did not use the word "Llama" but used "Genesis" instead? A. Possibly. I don't recall. Q. Did you do any work on the Llama 1 series of models? A. Not directly. Q. What do you mean by "not directly"? A. For example, I supported Naman Goyal, who was a co-author on this paper. Q. Do you recognize the names of all of	4 5 6 7 8 9 10 11 12 13	A. I recall Aurelien Rodriguez and Armand Joulin who are co-authors on this paper. And as I said, I was also one of the managers of the team. Q. Of the team, but you had no direct role in development model, right? A. What do you mean by a "direct role." Q. Well, you said you didn't work in the Llama 1 series of models directly. Do you recall that? A. I mean that I was not implementing or running experiments myself.
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efficience Q. A. making GPUs it Q. A. Q. Q. graphic	He was mostly helping with training by. What is training efficiency? Making the model train on a the model more effectively to utilize the was trained on. GPU is general processing units? Yes. That's hardware?	1 2 3 4 5 6 7 8 9 10 11 12	management or program management. Q. Who was Edouard Grave? A. He was another research scientist. Q. So you can set that document aside. Now, at some point later in 2023, Meta released another series of models; is that correct? A. Yes. Q. What would be called Llama 2 series of models, right? A. We released the Llama 2 series of models in 2023, yes.
A. efficience Q. A. making GPUs it Q. A. Q. A. Q. graphic	What is training efficiency? Making the model train on a the model more effectively to utilize the was trained on. GPU is general processing units? Yes. That's hardware? Yes. I am sorry. Are they actually	2 3 4 5 6 7 8 9 10	 Q. Who was Edouard Grave? A. He was another research scientist. Q. So you can set that document aside. Now, at some point later in 2023, Meta released another series of models; is that correct? A. Yes. Q. What would be called Llama 2 series of models, right? A. We released the Llama 2 series of
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GPUs it Q. A. Q. A. Q. graphic	was trained on. GPU is general processing units? Yes. That's hardware? Yes. I am sorry. Are they actually	7 8 9 10 11	A. Yes. Q. What would be called Llama 2 series of models, right? A. We released the Llama 2 series of
Q. A. Q. A. Q. graphic A.	GPU is general processing units? Yes. That's hardware? Yes. I am sorry. Are they actually	8 9 10 11	A. Yes.Q. What would be called Llama 2 seriesof models, right?A. We released the Llama 2 series of
A. Q. A. Q. graphic A.	Yes. That's hardware? Yes. I am sorry. Are they actually	9 10 11	Q. What would be called Llama 2 series of models, right? A. We released the Llama 2 series of
Q. A. Q. graphic A.	That's hardware? Yes. I am sorry. Are they actually	10 11	of models, right? A. We released the Llama 2 series of
A. Q. graphic A.	Yes. I am sorry. Are they actually	11	A. We released the Llama 2 series of
Q. graphic A.	I am sorry. Are they actually	1	
graphic A.		1 12	models in 2023, yes.
A.	s processing.	13	Q. Some time in July of 2023?
	I am sorry. Yes. Correct. Thank	14	A. That sounds correct.
	1 am sorry. 1 cs. Correct. Thank	15	Q. And was there a research paper
Q.	So Aurelien Rodriguez, he is no	16	
-			released contemporaneously with the model the Llama 2 series was released?
_		1	A. Yes.
			Q. I'm going to hand you what's been
-		1	premarked as Plaintiffs' Exhibit 2. This is a
			-
			document bearing Bates Meta Kadrey 0000001. (Whereupon, Kambadur Exhibit 2,
Q.	Tam sorry. Actuary, is wir. Lample		(wnereupon, Kambadur Exinbit 2,
	Page 46		Page 48
that is a	ctually at Mistral?	1	"Llama 2: Open Foundation and Fine-Tuned
A.	Yes. Guillaume, yes, is at Mistral.	2	Chat Models", was marked for identification.
Q.	I ask that you forgive me for my	3	BY MR. YOUNG:
terrible	French.	4	Q. Ms. Kambadur, you can just keep the
	Along with Mr. Timothee Lacroix?	5	exhibits. I might be cross-referencing some of
A.	I don't recall for sure.	6	them later today, so.
Q.	Mr. Lample, what was his role at	7	Ms. Kambadur, do you recognize this
Meta?		8	document?
A.	He was also a research scientist.	9	A. Yes.
Q.	And Armand Joulin, what is his role?	10	Q. What is this document?
A.	I believe research director.	11	A. It appears to be our Llama 2 paper.
Q.	So research director.	12	Q. Now, you are listed as one of the
]	Did Mr. Joulin have managerial	13	authors of this paper, correct?
_	-	14	A. Yes.
authors	on this paper?	15	Q. Along with many of the names
A.	Honestly, I forget who was on his	16	well, you are on the second-to-bottom row; is
manager	ment team at the time.	17	that right?
Q.	Who is Xavier Martinet?	18	A. That's correct.
A.	He is another research scientist at	19	Q. Right next to Ms. Angela Fan?
Meta.		20	A. Yes.
Q.	Do you know who Faisal Azhar is?	21	Q. Who is Angela Fan?
A.	I believe he was in either project	22	A. She's a research scientists at Meta.
1 1 1 1 1 1 1	A. Q. that is a A. Q. that is a A. Q. terrible A. Q. Meta? A. Q. responsiauthors A. manager Q. A. Meta. Q.	A. That is correct. Q. Is he working for a company called Mistral? A. I don't think so, but I am not sure. Q. I am sorry. Actually, is Mr. Lample Page 46 that is actually at Mistral? A. Yes. Guillaume, yes, is at Mistral. Q. I ask that you forgive me for my terrible French. Along with Mr. Timothee Lacroix? A. I don't recall for sure. Q. Mr. Lample, what was his role at Meta? A. He was also a research scientist. Q. And Armand Joulin, what is his role? A. I believe research director. Q. So research director. Did Mr. Joulin have managerial responsibility over others on listed as authors on this paper? A. Honestly, I forget who was on his management team at the time. Q. Who is Xavier Martinet? A. He is another research scientist at Meta. Q. Do you know who Faisal Azhar is?	A. That is correct. Q. Is he working for a company called Mistral? A. I don't think so, but I am not sure. Q. I am sorry. Actually, is Mr. Lample Page 46 that is actually at Mistral? A. Yes. Guillaume, yes, is at Mistral. Q. I ask that you forgive me for my terrible French. Along with Mr. Timothee Lacroix? A. I don't recall for sure. Q. Mr. Lample, what was his role at Meta? A. He was also a research scientist. Q. And Armand Joulin, what is his role? A. I believe research director. Q. So research director. Q. So research director. Q. So research director. Q. So research director. Q. Honestly, I forget who was on his management team at the time. Q. Who is Xavier Martinet? A. He is another research scientist at Meta. Q. Do you know who Faisal Azhar is?

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	Page 49	Page 51
1	Q. Do you know who Shruti Bhosale is?	1 Q. What conditions were do you
2	A. Yes.	2 recall any examples of those conditions that
3	Q. Who is Shruti?	3 companies would sign up for in order to use the
4	A. She is a research engineer at Meta.	4 Llama series of models?
5	Q. What about David David Esiobu, do	5 A. I don't recall precise constraints.
6	you know who that is?	6 I'd have to look at it. But I remember, for
7	A. Yes.	7 example, there were constraints about not
8	Q. Who is Mr. Esiobu?	8 causing not not using it for harm against
9	A. He's also a research engineer at	9 minors, I believe. Something like that in there
10	Meta.	10 or not using it more generally. But, again, I
11	Q. What about Nikolay Bashlykov, do you	11 would have to look at the actual license to
12	know who that is?	12 recall.
13	A. Yes.	Q. So was Meta just giving the Llama 2
14	Q. What is his role at Meta?	14 models away without expectations of anything in
15	A. A research engineer.	15 return?
16	Q. Can you please turn to page 4 of the	16 MR. WEINSTEIN: Object to form.
17	document.	17 Vague.
18	Do you see where in the middle of	18 You can answer.
19	the page it says "We are releasing the following	19 A. What do you mean "without
20	models to general public for research and	20 expectations of anything in return"?
21	commercial use"?	21 BY MR. YOUNG:
22	A. Yes.	Q. Was Meta getting anything out of
	Page 50	Page 52
1	Q. What is the difference between	1 licensing the Llama 2 series of models to
2	research use and commercial use?	2 companies?
3	A. I think we meant it as companies who	3 A. Our intent was to I don't know
4	are licensed to use the models, not just research	4 the the full ramifications of licensing. But
5	groups.	5 one of at least one of the intents was to
6	Q. By "license" do you mean for a fee?	6 share more open research and to allow others to
7	A. No.	7 have access to similar technology. Because we
8	Q. What do you mean by "license"?	8 believe that would improve the technology faster
9	A. I'm not sure I know the the	9 for everyone.
10	precise legal definition, but we had an open,	
11	i.e., free license for other companies to use it	
12	under certain constraints.	
13	Q. What constraints were they?	
14	A. I don't recall the precise	
15	constraints.	
16	Q. Was the Llama 1 series models ever	
17	released to the public?	
18	A. Yes.	
19	Q. And by strike that.	
20	So "constraints," that implies some	
21	sort of conditions, right?	Q. But it would be fair to say that
22		
22	A. Yes.	22 Meta received something in return for licensing

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	riigriiy Corindentiai -		
	Page 53		Page 55
1	the Llama 2 models, right?	1	Q. Do you know who wrote that sentence?
2	MR. WEINSTEIN: Object to form.	2	A. No.
3	You can answer.	3	Q. Do you know who the primary author
4	A. I don't I think it was my	4	of this document was?
5	understanding is that it was more abstract. It	5	A. I don't know what you mean by
6	wasn't like a trade for data. It was more like	6	"primary author."
7	we are trying to help improve the technology for	7	Q. Do you know who wrote the majority
8	everyone.	8	of the words that ended up in this paper?
9	BY MR. YOUNG:	9	A. No, I don't know.
10	Q. Do you remember some of the	10	Q. Do you know who wrote the first
11	companies that Meta licensed the Llama 2 license	11	draft of this paper?
12	to?	12	A. I'm not sure, actually.
13	A. No. I wasn't really involved with	13	Q. Was it Mr. Touvron?
14	that process.	14	MR. WEINSTEIN: Object to form.
15	Q. What do you understand the word	15	A. I I am not sure.
16	"commercial" to mean?	16	BY MR. YOUNG:
17	A. Businesses.	17	Q. So out of the names on the very
18		18	first page of this document, who would know what
19	Q. So what do you understand the term the phrase "commercial use" to mean?	19	you meant by the words "commercial use" in this
20		20	
	A. My understanding is that it's for-profit entities and not just, like,	21	paragraph? A. I'm not sure.
21 22	· · · · · · · · · · · · · · · · · · ·	21	
22	non-profit research organizations.		Q. You're not sure? Okay.
	Page 54		Page 56
1	Page 54 Q. Were any of the strike that.	1	Page 56 Now, you licensed Llama to to
1 2		1 2	_
	Q. Were any of the strike that.		Now, you licensed Llama to to
2	Q. Were any of the strike that. So by "commercial use," when you're	2	Now, you licensed Llama to to for-profit entities; is that right?
2	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using	2	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so.
2 3 4	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with	2 3 4	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1
2 3 4 5	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities?	2 3 4 5	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities?
2 3 4 5 6	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form.	2 3 4 5 6	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no.
2 3 4 5 6 7	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form. Calls for speculation.	2 3 4 5 6 7	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no. Q. Was Llama 1 largely an internal
2 3 4 5 6 7 8	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form. Calls for speculation. You can answer.	2 3 4 5 6 7 8	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no. Q. Was Llama 1 largely an internal model?
2 3 4 5 6 7 8 9	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form. Calls for speculation. You can answer. A. I don't remember if I helped with	2 3 4 5 6 7 8	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no. Q. Was Llama 1 largely an internal model? A. What do you mean by "largely an internal model"?
2 3 4 5 6 7 8 9	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form. Calls for speculation. You can answer. A. I don't remember if I helped with the sentence, but I think the intent of the	2 3 4 5 6 7 8 9	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no. Q. Was Llama 1 largely an internal model? A. What do you mean by "largely an internal model"? Q. Was it generally would you
2 3 4 5 6 7 8 9 10	Q. Were any of the strike that. So by "commercial use," when you're using commercial when you were using "commercial use" in this paper, did you mean with for-profit entities? MR. WEINSTEIN: Object to form. Calls for speculation. You can answer. A. I don't remember if I helped with the sentence, but I think the intent of the sentence is that nonresearch groups could use it	2 3 4 5 6 7 8 9 10	Now, you licensed Llama to to for-profit entities; is that right? A. Yes, I believe so. Q. What about Llama 1? Was Llama 1 licensed to for-profit entities? A. As far as I know, no. Q. Was Llama 1 largely an internal model? A. What do you mean by "largely an internal model"?
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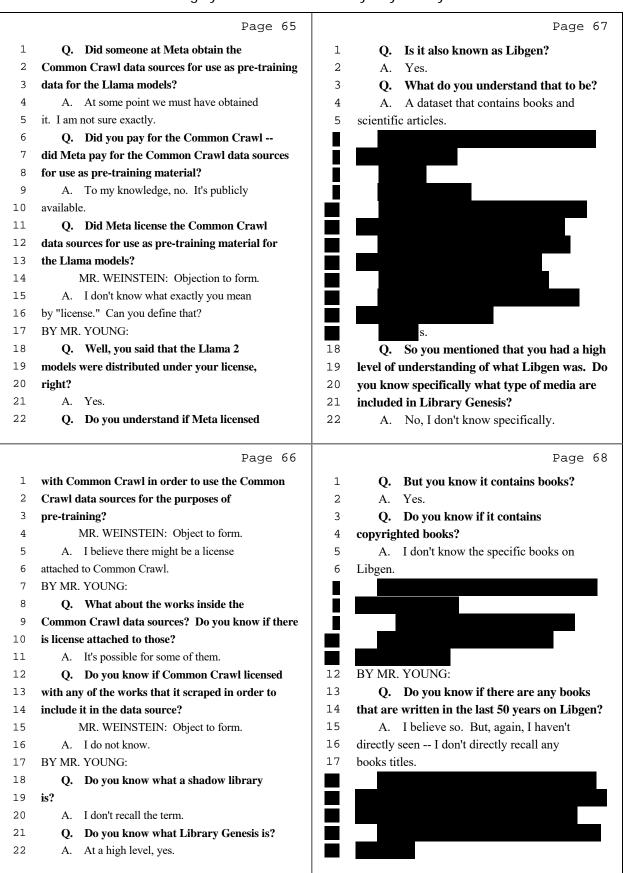
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	Page 57		Page 59
1		1	
1 2	following models to the general public for research and commercial use." There are two	2	Llama 2 model? A. I would have to review to see.
		3	
3 4	bullet there are two numbered bullet points.	4	Q. Take a couple of seconds to review. MR. WEINSTEIN: After the question,
	Do you see that, page 4? I	5	can we take a break so my colleague could
5 6	apologize.	6	leave?
	A. I see a footnote, if that's what	7	A. I do see at least some of the
7	you're or sorry.		
8 9	You're talking about the bullet under?	8 9	datasets are reported. BY MR. YOUNG:
		1	
10	Q. Yes.	10	Q. Can you point me to where?
11	A. Yeah, sorry. Yes, I see that.	12	A. Table 6 on page 11.
12	Q. Okay. It says: One, Llama 2, an		MR. YOUNG: Why don't we go off the
13	updated version of Llama 1 trained on a new mix	13	record real quickly so Ms. Vo can leave.
14	of publicly available data.	14	THE VIDEOGRAPHER: The time right
15	Do you see that?	15	now is 10:06. We are off the record.
16	A. Yes.	16	(Whereupon, a brief recess was
17	Q. So what does it what does it mean	17	taken.)
18	by Llama 2 is an updated version of Llama 1?	18	THE VIDEOGRAPHER: Time right now is
19	A. It means that we added more to the	19	10:16 a.m. We are back on record.
20	model to improve the model.	20	BY MR. YOUNG:
21	Q. So does that mean that everything	21	Q. Welcome back, Ms. Kambadur.
22	that was in Llama 1 is necessarily included in	22	Is there a difference between
	Page 58		Page 60
1	Llama 2?	1	4
2		1 -	pre-training and training data?
	A. No.	2	A. Pre-training is a more precise term,
3	A. No. Q. Why not?		
3 4		2	A. Pre-training is a more precise term,
	Q. Why not?	2 3	A. Pre-training is a more precise term, pre-training data.
4	Q. Why not?A. I don't I'm not sure what you	2 3 4	A. Pre-training is a more precise term,pre-training data.Q. What is pre-training?
4 5	Q. Why not? A. I don't I'm not sure what you mean by "why not," but	2 3 4 5	 A. Pre-training is a more precise term, pre-training data. Q. What is pre-training? A. Pre-training refers to the stage of
4 5 6	Q. Why not? A. I don't I'm not sure what you mean by "why not," but Q. Well okay. So when you said you added more to Llama 1 to make Llama 2, more what? A. For example, we further aligned the	2 3 4 5 6	 A. Pre-training is a more precise term, pre-training data. Q. What is pre-training? A. Pre-training refers to the stage of training where we use a large amount of
4 5 6 7	Q. Why not? A. I don't I'm not sure what you mean by "why not," but Q. Well okay. So when you said you added more to Llama 1 to make Llama 2, more what?	2 3 4 5 6 7	 A. Pre-training is a more precise term, pre-training data. Q. What is pre-training? A. Pre-training refers to the stage of training where we use a large amount of unsupervised data.
4 5 6 7 8	Q. Why not? A. I don't I'm not sure what you mean by "why not," but Q. Well okay. So when you said you added more to Llama 1 to make Llama 2, more what? A. For example, we further aligned the	2 3 4 5 6 7 8	A. Pre-training is a more precise term, pre-training data. Q. What is pre-training? A. Pre-training refers to the stage of training where we use a large amount of unsupervised data. Q. What do you mean by "unsupervised"? A. In this context, unsupervised means that we have data that doesn't include labels.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Why not? A. I don't I'm not sure what you mean by "why not," but Q. Well okay. So when you said you added more to Llama 1 to make Llama 2, more what? A. For example, we further aligned the model with more annotation data. Q. More training data? A. A specific type of training data, yes. Q. Did you add other training data into Llama 2? A. I don't recall actually. Q. So it says that Llama 2 was trained on, quote, a new mix of publicly available data.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Pre-training is a more precise term, pre-training data. Q. What is pre-training? A. Pre-training refers to the stage of training where we use a large amount of unsupervised data. Q. What do you mean by "unsupervised"? A. In this context, unsupervised means that we have data that doesn't include labels. So it will be like a piece of text versus a piece of yes, just a piece of text essentially. Q. Now, before we left for the break, we were looking at what was marked as Plaintiffs' Exhibit 2, the Llama 2 model or the Llama 2 paper. Do you remember that? A. Yes. Q. Now, if can you please go to page 5 of that paper, please. There's a section on

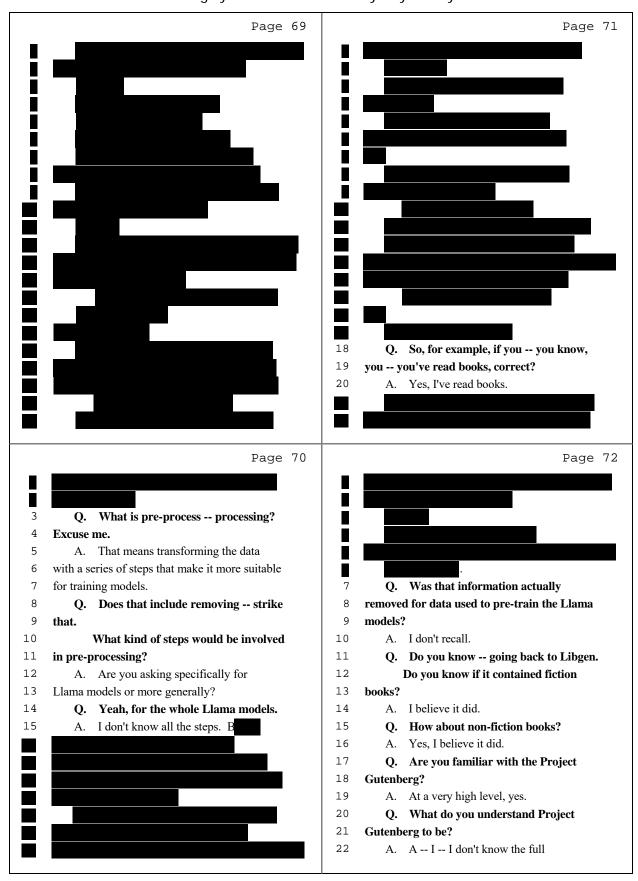
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	Page 61		Page 63
1	A. Yes.	1	Q. What is Common Crawl?
2	Q. And Section 2.1 is on pre-training	2	A. It is a it may also be an
3	data.	3	institution, I am not sure, but I am familiar
4	Do you see that?	4	with it as a data source that is crawled web
5	A. Yes, I do.	5	pages.
6	Q. The first sentence says: "Our	6	Q. Is it a do you understand Common
7	training corpus includes a new mix of date from	7	Crawl to be a series of datasets published by an
8	publicly available sources, which does not	8	organization called Common Crawl?
9	include data from Meta's products and services."	9	A. I can't recall the organization's
10	Do you see that?	10	name, but it may be also be called Common Crawl.
11	A. Yes.	11	Q. Do you understand generally what
12	Q. What do you mean by publicly	12	type of information is included in the Common
13	available strike that.	13	Crawl data sources?
14	What do you understand the term	14	A. I have a high level understanding.
15	"publicly available sources" to mean?	15	Q. What is your high level
16	A. I understand it to mean data which	16	understanding of what's included in there?
17	is publicly available, for example, on the	17	A. That there are web documents.
18	Internet.	18	Q. So documents scraped from the
19	Q. From any sources on the Internet?	19	Internet?
20	A. Are you asking like could the	20	A. Yes.
21	training data be from any sources or could	21	Q. Do you know if there any copyrighted
22	publicly available data be from any sources?	22	material that's been scraped and included in the
	Page 62		Page 64
1	Q. Let me rephrase that question.	1	Common Crawl data sources?
2	So by "publicly available," could	2	MR. WEINSTEIN: Object to form.
3	that data, for example, just be downloaded from	3	A. I do not know.
4	the Internet?	4	BY MR. YOUNG:
5	MR. WEINSTEIN: Object to form.	5	Q. Do you think there could be?
6	A. Could you download data that is	6	MR. WEINSTEIN: The same objection.
7	publicly available?	7	You can answer.
8	BY MR. YOUNG:	8	A. It's possible.
9	Q. Yes.	9	BY MR. YOUNG:
10	A. Yes.	10	Q. Did you use Common Crawl to
11	Q. Could that data be free?	11	pre-train the Llama models?
12	A. You are asking can data which is	12	A. Yes.
13	publicly available be free?	13	Q. Do you recall how you obtained the
14	Q. Yes.	14	Common Crawl data sources for the purposes of
15	A. Yes.	15	pre-training Llama models?
	Q. Can you describe some of the	16	A. No, I do not recall.
16	publicly available data that been referred to	17	Q. Did someone at FAIR download the
		18	Common Crawl data sources for use as pre-training
16	here in this paper?	1 10	
16 17	here in this paper? A. For example, we use web crawl data.	19	materials for Llama models?
16 17 18			materials for Llama models?
16 17 18 19	A. For example, we use web crawl data.	19	materials for Llama models? MR. WEINSTEIN: Object to form.
16 17 18 19 20	A. For example, we use web crawl data.Q. Are you familiar with what Common	19 20	materials for Llama models?

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knowledge base"?

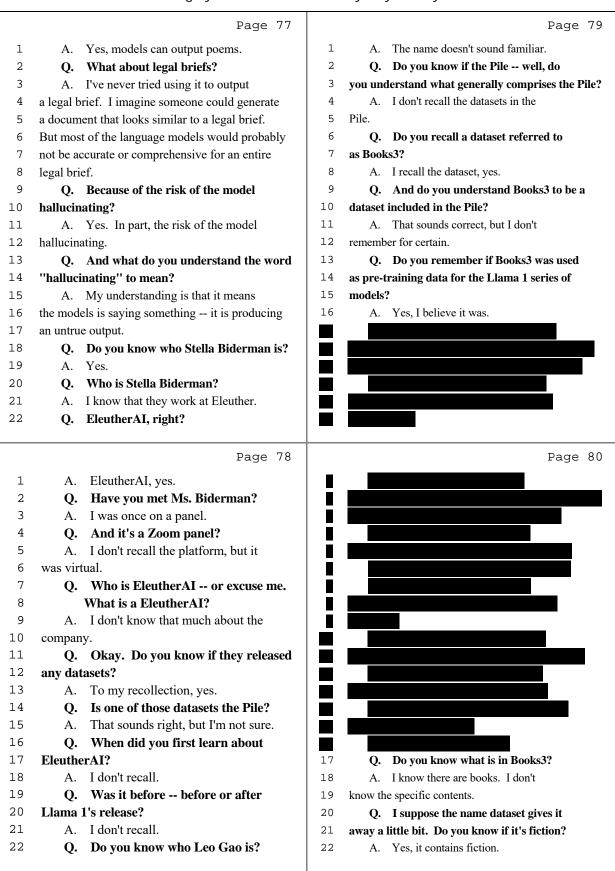
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		_	
	Page 73		Page 75
1	project, but I know that they have produced a	1	Q. So, for example, if a model if
2	dataset of books.	2	Llama was pre-trained on Project Gutenberg
3	Q. And Project Gutenberg, it's	3	well, actually, strike that.
4	available online, right?	4	What is post-training?
5	A. As far as I know, yes.	5	A. Post-training, different people have
6	Q. Do you know if Project Gutenberg	6	different definitions, but it generally could
7	contains copyrighted materials?	7	refer to any training steps done after you have
8	A. I'm not certain.	8	pre-trained a foundational model.
9	Q. Have you ever visited the Project	9	Q. And what is a foundational model?
10	Gutenberg website?	10	A. Generally, a model which you intend
11	A. Possibly. I don't recall.	11	to use broadly.
12	Q. Do you recall seeing a disclaimer	12	Q. So what do you mean by "use
13	saying that some of the books may be copyrighted	13	broadly"? Can you explain that phrase a little
14	and thus may be limited for commercial uses?	14	bit?
15	MR. WEINSTEIN: Object to form.	15	A. For example, which you might
16	A. I don't recall because I don't	16	post-train in multiple different ways. It's like
17	recall if I ever visited the site.	17	a foundational base model.
18	BY MR. YOUNG:	18	Q. So using layman's terms, to make the
19	Q. Okay. Was Project Gutenberg the	19	model more specialized for particular functions?
20	dataset used to pre-train any of the Llama	20	A. A foundational could be made
21	models?	21	specialized for different functions, yes.
22	A. I believe so.	22	Q. And I recall you used the phrase
	11. Toolie ve so.		Q. That I recan you used the phrase
	Page 74		Page 76
1	Page 74 Q. Do you remember which models?	1	Page 76 the term "downstream applications" earlier.
1 2		1 2	
	Q. Do you remember which models?		the term "downstream applications" earlier.
2	Q. Do you remember which models?A. I don't recall for certain.	2	the term ''downstream applications'' earlier. Is that would that be
2	Q. Do you remember which models?A. I don't recall for certain.Q. Was it used to train the Llama 1	2	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a
2 3 4	Q. Do you remember which models?A. I don't recall for certain.Q. Was it used to train the Llama 1 series of models?	2 3 4	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream
2 3 4 5	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would 	2 3 4 5	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say?
2 3 4 5 6	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would have to look it up. 	2 3 4 5 6	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say? A. Yes, potentially.
2 3 4 5 6 7	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would have to look it up. Q. What about the Llama 2 series of 	2 3 4 5 6 7	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say? A. Yes, potentially. Q. Now, what do you mean by "downstream
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2 3 4 5 6 7 8 9	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would have to look it up. Q. What about the Llama 2 series of models? A. I don't recall. Q. And Llama 3, what about for those 	2 3 4 5 6 7 8 9	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say? A. Yes, potentially. Q. Now, what do you mean by "downstream applications"? A. I mean end uses of the model. Q. So, for example, coding?
2 3 4 5 6 7 8 9 10	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would have to look it up. Q. What about the Llama 2 series of models? A. I don't recall. Q. And Llama 3, what about for those series of models? 	2 3 4 5 6 7 8 9 10	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say? A. Yes, potentially. Q. Now, what do you mean by "downstream applications"? A. I mean end uses of the model. Q. So, for example, coding? A. Coding could be something that
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2 3 4 5 6 7 8 9 10 11 12	 Q. Do you remember which models? A. I don't recall for certain. Q. Was it used to train the Llama 1 series of models? A. That sounds possible, but I would have to look it up. Q. What about the Llama 2 series of models? A. I don't recall. Q. And Llama 3, what about for those series of models? A. I don't recall. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the term "downstream applications" earlier. Is that would that be post-training be something you would do to make a foundational model more suitable for downstream applications? Would that be fair to say? A. Yes, potentially. Q. Now, what do you mean by "downstream applications"? A. I mean end uses of the model. Q. So, for example, coding? A. Coding could be something that someone like a coding assistant could be a use case. Q. What about writing fiction? A. What about it? Q. Could that be a downstream application or a use case?

19 (Pages 73 to 76)

Q. What about poetry?

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large, right?

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	Highly Confidential -		, ,
	Page 81		Page 83
1	Q. Do you know if it contains	1	A. Relative to what?
2	copyrighted works?	2	Q. Relative to data?
3	A. I believe so.	3	A. Sorry. I don't know what you mean
4	Q. What about non-fiction?	4	by that.
5	A. I am not sure.	5	Q. I apologize. I am not a data
6	Q. Do you know if Meta ever paid for	6	person. I will try to rephrase.
7	any of the books included in the Books3 data set?	7	Have you ever examined the training
8	MR. WEINSTEIN: Object to form.	8	data?
9	A. No, I don't know.	9	A. I have seen small subsets of it.
10	BY MR. YOUNG:	10	Q. Have you ever seen the entire
11	Q. Do you know how many books are in	11	well, do you know what is a training corpus or
12	Books3?	12	pre-training corpus?
13	A. I don't recall.	13	A. It's a corpus is just a term that
14	Q. Do you know if Meta maintains a list	14	describes the set of data.
15	of all the books included in Books3?	15	Q. So it would include all of the
16	A. Of all the books included, I am not	16	pre-training datasets, would that be fair?
17	sure I have seen a list of titles but I don't	17	A. That is usually what people mean
18	recall if that was comprehensive.	18	when they say "training corpus," yes.
19	Q. I apologize. I interrupted you.	19	Q. So when I refer to do you
20	A. Sorry.	20	understand by dataset, that may be a subset of a
		21	training corpus, right?
		22	A. Yes. A dataset could be a subset.
	Page 82		Page 84
	Page 82	1	Q. So a training set comprises would
	Page 82	2	Q. So a training set comprises would it be fair to say when you look at a data
i			Q. So a training set comprises would it be fair to say when you look at a data well, strike that.
4	Q. Do you know if that document still	2	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is?
5	Q. Do you know if that document still exists at Meta now?	2 3	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is? A. Yes.
5 6	Q. Do you know if that document still exists at Meta now? A. I am sure it does.	2 3 4 5 6	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is? A. Yes. Q. JSON is a file extension, right?
5 6 7	Q. Do you know if that document still exists at Meta now? A. I am sure it does. Q. Would that document be a true and	2 3 4 5 6 7	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is? A. Yes. Q. JSON is a file extension, right? A. Yes.
5 6 7 8	Q. Do you know if that document still exists at Meta now? A. I am sure it does. Q. Would that document be a true and accurate list of the titles used to train any of	2 3 4 5 6 7 8	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is? A. Yes. Q. JSON is a file extension, right? A. Yes. Q. Would it be fair to say that some of
5 6 7 8 9	Q. Do you know if that document still exists at Meta now? A. I am sure it does. Q. Would that document be a true and accurate list of the titles used to train any of the Llama models?	2 3 4 5 6 7 8	Q. So a training set comprises would it be fair to say when you look at a data well, strike that. Do you know what a JSON file is? A. Yes. Q. JSON is a file extension, right? A. Yes. Q. Would it be fair to say that some of the training datasets would exist in JSON format?
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also what we mean by an "entry" in this case.

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Page 85 Page 87 1 Q. So you have examined -- you've seen models? a list of -- I believe you testified earlier 2 A. We maintain, like, configuration 2 there was list of files that are used to train files that point to a list of datasets and we 3 3 4 maintain the raw data. the Llama models. 4 Do you remember that testimony 5 5 Q. So these lists of datasets, are 6 earlier generally? those the pre-processed datasets or the processed A. I have seen a list of at least some 7 datasets that were used for pre-training? I of the books used to train Llama models, yes. 8 8 apologize. 9 Q. How many entries are on that list? 9 A. Are you asking does the config file 10 A. I don't recall. 10 point to pre- or post-process data? 11 Q. To your best recollection, was it 11 Q. Yes. 12 more than 1,000? 12 A. Our config file would point to 13 A. I don't recall but it's possible. 13 post-process data. 14 Q. More than hundreds, though, right? 14 Q. So if one would look at the config 15 A. Yes, I think so. 15 file, you would be able to identify the works 16 Q. Do you know who acquired the Pile 16 that would be included as pre-training data for 17 for use as pre-training material for the Llama 17 the Llama models; would that be fair to say? 18 models? A. What do you mean "the works?" 18 19 A. I do not. 19 Q. For example, if a particular book 20 Q. Do you know when you first heard of 20 were used from Books3 where you use the 21 the Pile being used at Meta for pre-training 21 pre-training model, you would be able to look at 22 purposes? the config file to identify that book; would that Page 86 Page 88 1 A. I don't remember. 1 fair? 2 Q. 2022? 2 A. The config file would only give you high level file names 3 A. Perhaps earlier. I don't remember 3 but that 4 which one. 4 wasn't the precise name, just an example. 5 5 Q. What about Books3 specifically? Do Q. I understand. Thank you for you recall when you first learned Books3 was 6 6 clarifying. 7 7 being researched at Meta for use as pre-training Do you know who Meta's competitors 8 data? 8 are in terms of large language models? 9 9 A. What do you mean by "competitors?" A. I don't recall. 10 Q. Was it before 2022? 10 Q. For example, would OpenAI be a 11 A. I don't recall. 11 competitor? 12 A. I don't understand what you mean by 13 the term "competitor." 14 Q. Do you know who OpenAI is? 15 A. Yes. 16 Q. Who are they? 17 A. An AI company. Q. And did they generate an LLMs large 18 A. By -- actually, I don't recall 19 language product? 20 specifically the person. 20 A. Yes. They have a large language 21 Q. Do you know if Meta maintains a list 21 based product.

22

22 (Pages 85 to 88)

Q. And that's ChatGPT?

of all the pre-training material used for Llama

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1	A. I don't know exactly how they bundle	1	Do you know what datasets were used
2	their models as products, but that's one of the	2	to pre-train ChatGPT?
3	names of their models or products, yes.	3	MR. WEINSTEIN: Object to form.
4	Q. What about Anthropic, do you know	4	A. No, I do not.
5	who they are?	5	BY MR. YOUNG:
6	A. Yes, I know of Anthropic.	6	Q. Have you ever told anyone who works
7	Q. They also distribute or publish a	7	for OpenAI the datasets that are used to
8	large language model known at Claude; is that	8	pre-train the Llama models?
9	fair?	9	A. No. I may have discussed with an
10	A. What do you mean by "distribute" or	10	I may have had discussions with an a former
11	"publish"?	11	employee who ended up going to OpenAI, but I
12	Q. Make available for use.	12	don't recall specifically.
13	A. Yes, they make a model called Claude	13	Q. What about Anthropic, have you ever
14	available for use.	14	discussed with anybody at Anthropic any of the
15	Q. Would you consider the Llama models	15	datasets used to pre-train any of the Llama
16	to be competing products at ChatGPT and Claude?	16	models?
17	A. What do you mean by "competing"?	17	A. Not that I recall.
18	Q. Does Meta measure the performance of	18	Q. Would you consider the datasets that
19	the Llama models compared with the other large	19	are used to pre-train the Llama models to be
20	language models that are being published by, for	20	trade secrets?
21	example, OpenAI and Anthropic?	21	MR. WEINSTEIN: Object to form.
22	A. Yes, we do compare performance	22	A. What do you mean by "trade secrets"?
	5 00		
	Page 90		Page 92
1	metrics.	1	BY MR. YOUNG:
2	Q. Why do you compare the metrics?	2	Q. Would you ever publicly disclose the
3	A. We're trying to understand the	3	datasets that were used to pre-train any of the
4	relative capabilities of the models.	4	Llama models?
5	Q. Why are you trying to understand the	5	A. For Llama 2 onwards we've decided
6	relative capabilities of the models?	6	not to disclose the pre-training datasets.
7	A. Because we want to have models with	7	Q. Would you be subject to internal
8	relatively strong capabilities.	8	discipline if you were to publicly disclose any
9	Q. You want your models to be better than OpenAI's models, for example?	9 10	of the datasets used to pre-train any of the
10		11	Llama models subsequent to Llama 2?
11 12	A. We are yeah. We trying to get	12	MR. WEINSTEIN: Object to form.
	strong metrics relative to other models.		A. I'm not sure, honestly.
13	Q. And that's, for example, users?	13	BY MR. YOUNG:
14	A. I'm sorry. What do you mean?	14	Q. Do you recall that the Llama 1 paper
15	Q. People who use the large language	15	disclosed the pre-training datasets used for the
16 17	models, would you want more users would you	16	Llama 1 models?
17 18	prefer more users of Llama than, for example, ChatGPT?	17 18	A. I'd have review the paper.
18		19	Q. We'll do that in a second. Who was that former ampleyed of
20	A. So the metrics I was referring to earlier are more like academic benchmark numbers.		Who was that former employee of
21	Q. Do you know what datasets are used	20 21	OpenAI that you discussed pre-training datasets with?
	in ChatGPT excuse me. Let me strike that.	22	A. I said it's possible. I'm not
22			

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1	certain I did discuss.	1 legal context.
2	Q. Who was that person?	2 Q. What about in a general layperson's
3	A. I'd have to look up the name. I	3 context?
4	I don't know.	4 A. It can maybe, like, knowledge
5	Q. Do you remember about when that was?	5 that belongs to a specific company.
6	A. I don't I don't recall any	6 Q. That shouldn't be divulged. Would
7	specific conversation with this person. I'm just	7 that fair to say?
8	saying it's it's possible he may have heard	8 A. I suppose.
9	about our pre-training datasets.	9 Q. Would the datasets used to pre-train
10	Q. So in your role right now, you have	any of the Llama 2 models and subsequent models,
11	people who report to you.	11 would that be information that would be free for
12	Would that be fair to say?	12 you to disclose?
13	A. Yes.	A. We consider it more confidential.
14	Q. Do those individuals have knowledge	14 We
15	of the datasets used to pre-train any of the	
16	Llama models?	
17	A. Some of them do.	17 MR. YOUNG: Counsel, I please ask
18	Q. Now, if one of those individuals	you to refrain from nodding while the witness
19	were to go to, for example, OpenAI and use	19 is answering.
20	discuss the model what datasets were used to	20 MR. WEINSTEIN: Was that directed to
21	pre-train Llama 3, would that person be subject	21 me?
22	to discipline?	22 MR. YOUNG: Yes.
	Page 94	Page 96
1	MR. WEINSTEIN: Object to form.	1 MR. WEINSTEIN: I don't think I've
1 2	MR. WEINSTEIN: Object to form. A. I haven't read any of our, like,	1 MR. WEINSTEIN: I don't think I've 2 been doing that, sir.
	MR. WEINSTEIN: Object to form. A. I haven't read any of our, like, employment termination documentation, so I don't	1 MR. WEINSTEIN: I don't think I've 2 been doing that, sir. 3 MR. YOUNG: Okay. I will note on
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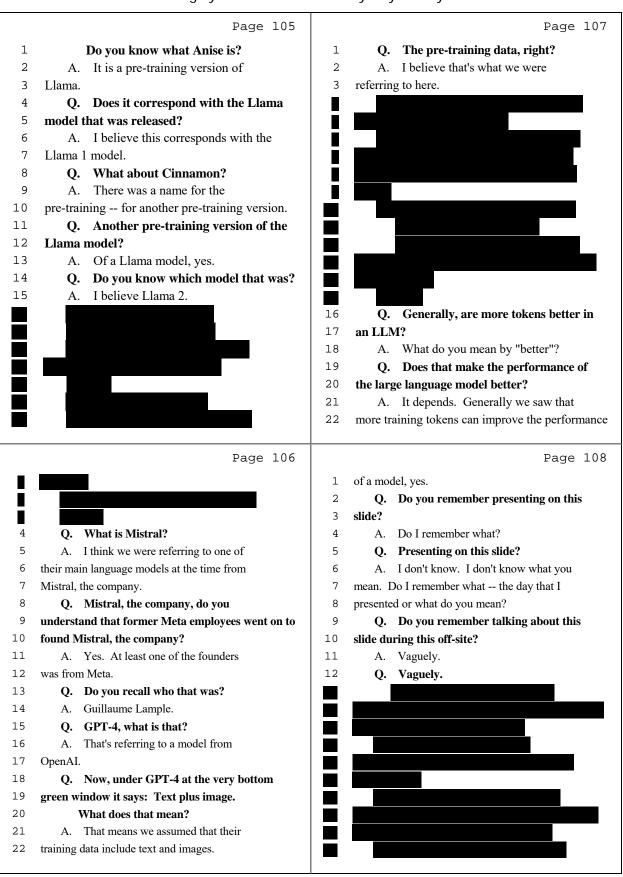
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1		1	by that.
2	Q. Okay. By team offsite that means well, is this by "team offsite," that means an	2	Q. So whenever you had an offsite, was
3	offsite, for example, meeting?	3	there generally an an agenda that accompanied
4	A. It's just a colloquial term we use	4	that offsite?
5	when people from multiple offices might be	5	A. Yes. Any meeting that we have with
6	getting together. In this case, it was actually	6	a large number of people we generally create an
7	at our Menlo Park or actually, was this at one	7	agenda.
8	at New York? I forget.	8	Q. And that included off-sites that
9	It was at one of our Meta offices,	9	were generally for business purposes, as opposed
10	but it was some people from different offices	10	to, for example leisure outings?
11	meeting together.	11	A. You're asking if we create agendas
12	Q. And do you remember what the general	12	for business purpose meetings? Sorry.
13	subject matter of this offsite was?	13	Q. Let me let me try to rephrase
14	A. I can see from this agenda that we	14	that.
15	were talking about different projects.	15	So looking at this agenda, this
16	Q. Including the Llama 2 series models?	16	agenda seems to be about business-related
17	A. I don't actually recall when this	17	activities, right?
18	was, but it looks like there was at least some	18	A. There were both business and social
19	content on Llama 2, based on the agenda.	19	activities, to my recollection.
20	Q. Now, do you see your name on here?	20	Q. Okay. But there were
21	A. Yes.	21	business-related activities, right?
22	Q. And you were giving a presentation	22	A. Yes.
22	Q. And you were giving a presentation		A. 105.
	Page 98		Page 100
1	Page 98 at this offsite, right, according to this agenda?	1	Page 100 Q. Now, do you recall if there was a
1 2		1 2	
	at this offsite, right, according to this agenda?		Q. Now, do you recall if there was a
2	at this offsite, right, according to this agenda? A. Yes.	2	Q. Now, do you recall if there was a PowerPoint presentation that you used when you
2	at this offsite, right, according to this agenda? A. Yes. Q. Okay. Do you recall giving a	2 3	Q. Now, do you recall if there was a PowerPoint presentation that you used when you were presenting at this event?
2 3 4	at this offsite, right, according to this agenda? A. Yes. Q. Okay. Do you recall giving a presentation some time on October 24th in 2023?	2 3 4	Q. Now, do you recall if there was a PowerPoint presentation that you used when you were presenting at this event? A. I don't recall for certain, but it's
2 3 4 5	at this offsite, right, according to this agenda? A. Yes. Q. Okay. Do you recall giving a presentation some time on October 24th in 2023? A. I don't recall the specific date,	2 3 4 5	Q. Now, do you recall if there was a PowerPoint presentation that you used when you were presenting at this event? A. I don't recall for certain, but it's possible there was a Google Slides presentation.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	at this offsite, right, according to this agenda? A. Yes. Q. Okay. Do you recall giving a presentation some time on October 24th in 2023? A. I don't recall the specific date, but it sounds possible. Q. Okay. Do you recall having an offsite some time around October 24, 2023? A. That sounds right. Q. Okay. Do you you recall attending one and giving a presentation there, right? A. Yes. I I don't remember the specific dates, but based on this agenda, that seems correct. Q. Now, were agendas for offsite meetings created in the regular of course of business at Meta? A. Were they what in the Q. Created in the regular course of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Now, do you recall if there was a PowerPoint presentation that you used when you were presenting at this event? A. I don't recall for certain, but it's possible there was a Google Slides presentation. Q. Okay. And Google Slides is something that's like PowerPoint? A. Similar. Q. Okay. Now, whenever there was a presentation at these offsites, were they typically accompanied by a presentation, whether it's Google Slides or some PowerPoint-like analog? A. It depends how much time we set aside to prepare what the topic is. Q. Okay. MR. YOUNG: I'm going mark as Plaintiffs' 4, a document bearing Bates label Meta Kadrey 00054739. (Whereupon, Kambadur Exhibit 4,
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		1
	Page 101	Page 103
1	BY MR. YOUNG:	1 presenting on large language models this day,
2	Q. And before we take your time	2 right?
3	but Ms. Kambadur, can you go back to	3 A. It the one the main person
4	Plaintiffs' 3, please? It's the agenda we were	4 presenting the talk.
5	just looking at.	5 Q. If you turn to the next slide?
6	A. Yes.	6 A. Yes.
7	Q. Do you see at the very top there is	7 Q. It says "Llama 3 LLM data."
8	a what appears to be a URL?	8 Do you see that?
9	A. Yes.	9 A. Yes, I see that.
10	Q. Do you recognize what that is?	Q. Did that suggest to you that the
11	A. This hyperlink internal at	11 subject matter of your conversation that day or
12	FD.com/wavefinder?	12 presentation that day was the Llama 3 model?
13	Q. Yes.	13 A. Yes.
14	A. It looks like probably a room	Q. And the data that was used in it?
15	location.	15 A. We talked a bit about the content of
16	Q. A room location, you mean like a	16 the dataset.
17	physical room?	Q. That data set?
18	A. Yes, like it's a this MPK number	18 A. Data corpus.
19	is the numbering and lettering system used	Q. Pre-training corpus, right?
20	well, I think so. I think it is a room number.	20 A. I would have to review the talk, but
21	Q. All right. Thank you.	21 I recall that it was mostly on pre-training.
22	Returning to Plaintiffs' 4, do you	Q. Now, can you please turn to the
	, ,	
	Page 102	Page 104
1	recognize this document?	Page 104 1 fifth slide. This is the one with the
1 2	recognize this document? A. It looks yes.	1 fifth slide. This is the one with the 2 multicolored windows. It's Llama versus the
	recognize this document? A. It looks yes. Q. Okay. What is it?	1 fifth slide. This is the one with the 2 multicolored windows. It's Llama versus the 3 competition.
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epochs," right?

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Melanie Kambadur

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Q. Let me clean up that question. I apologize. Strike that. Let me try a new question.

Does this slide suggest at this point in 2023 -- October 24th of 2023 -- let me back up.

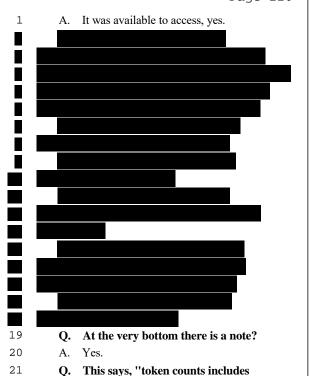
At this point Llama 3 had not been released yet, October 24th of 2023?

- A. Correct.
- Q. At this point the publicly available Llama version was Llama 2?
- 13 A. Yes
- Q. That corresponded with Cinnamon, 15 right?
- 16 A. Yes.
 - Q. At this time was the GPT-4 model publicly available?
- A. I believe that you could access the GPT-4 model through an API, yes.
- Q. What about the Mistral model that you were referencing here?

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- A. Yes.
- Q. What does the word "epoch" mean?
- A. Epoch means that we go over a piece do data more than once in training.
- Q. So what do you mean by -- by"training," do you mean pre-training?
 - A. Yes. Pre-training.
 - Q. So what does it mean to go over a piece of data in pre-training?
- A. It means while we are training the model and updating its weights, we show it -those epoched datasets potentially more than once.
 - Q. Why would you show the model -- what do you mean by show the model of the dataset?
- A. The model -- I'm trying to think how to explain this. Hang on.
- 18 It means we input those tokens into 19 the, like, training algorithm into the 20 transformer network and the model does a series
- 21 of linear algebra steps to -- to figure out how
- 22 to updates its weights.

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Page 112

Q. So I think you said a lot there that I think were terms of art. So I want to break that down a little bit just to help us understand a little bit.

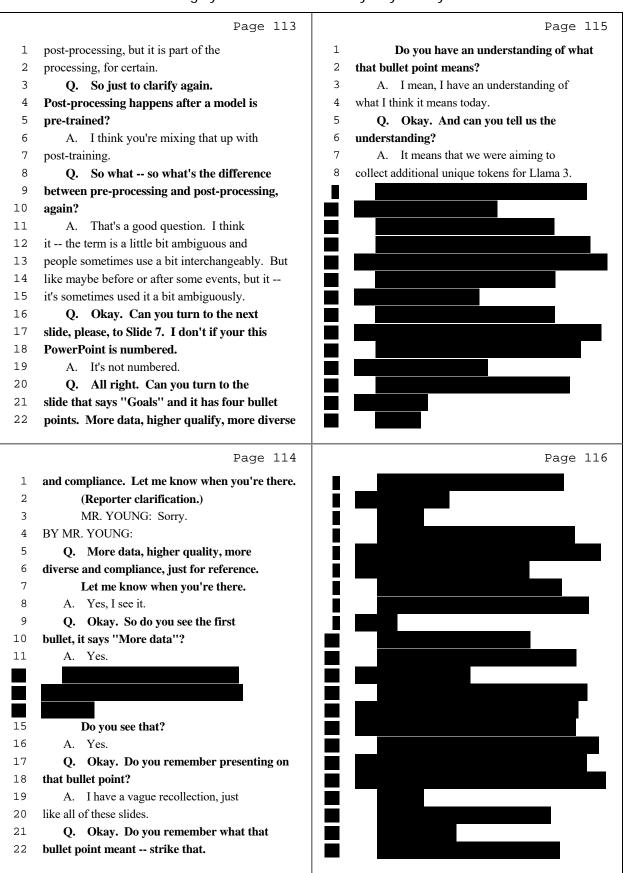
So when you input tokens for pre-training, is that able to work and -- well, strike that.

What is tokenization?

- A. Tokenization broadly refers to subdividing text into small unit -- units, which can be mapped to an embedding space.
- Q. Is this what's referred to as the neural network?
 - A. No.
- Q. What is the neural network?
- A. The neural network probably refers to the actual model.
 - Q. Now, is tokenization, is that part -- part of the post-process -- processing the data before you pre-train a model?
 - A. I'm not actually sure what we're referring to as a pre-processing versus

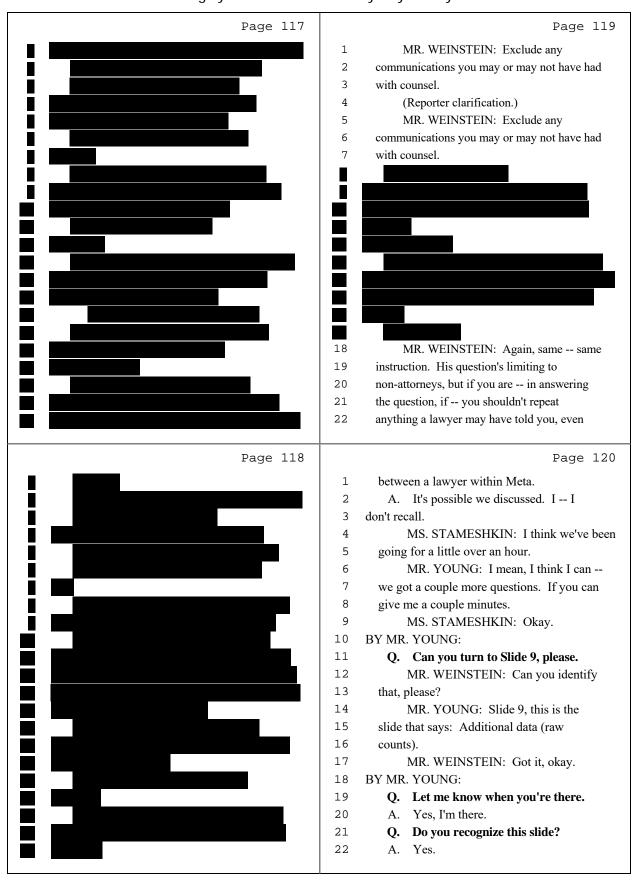
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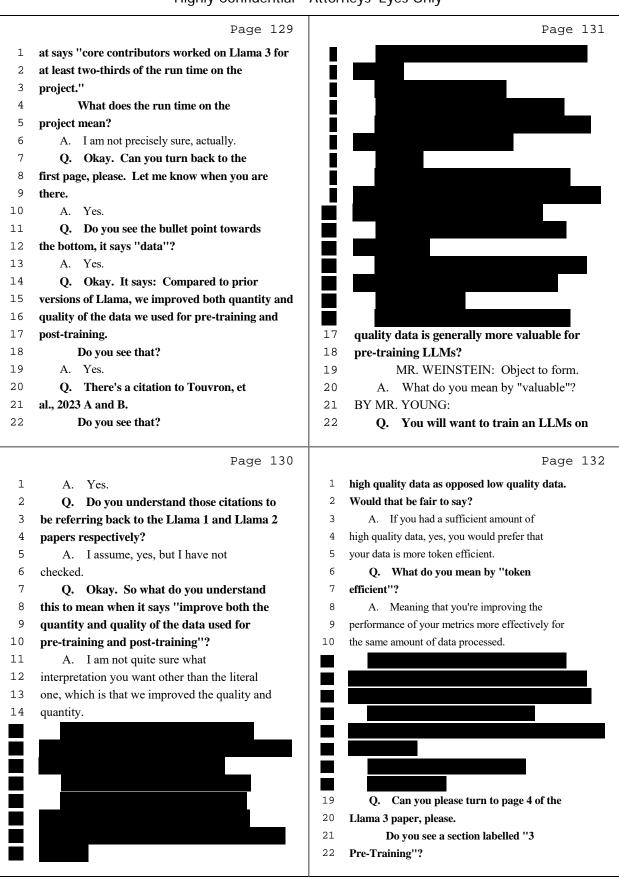
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Page 123 Page 121 O. What is it? 1 2 A. I believe it's showing additional data token counts that we were considering after Q. Do you recall what datasets were 3 4 4 considered in general -- in -- for inclusion in Llama 2. 5 Q. To process and include in Llama 3, 5 this table? right? A. The specific datasets I would have 6 6 7 7 A. Yes. to reference our, yeah, documentation. I don't 8 Q. Okay. So the first row in the 8 recall all the datasets. 9 yellow, it says: Corpus as of Llama 2. 9 MR. YOUNG: I think this is a good 10 Do you see that? 10 time for a break. THE VIDEOGRAPHER: The time right 11 A. Yes. 11 Okay. Can you tell me what that row 12 Q. 12 now is 11:31. We are off the record. 13 13 means? (Whereupon, a luncheon recess was 14 A. I think that is the size of the 14 taken.) 15 THE VIDEOGRAPHER: The time right 15 Llama 2 corpus and tokens. 16 Q. And that includes the pre-training 16 now is 12:22 p.m. We are back on record. corpus of Llama 2, right? That represents all 17 17 BY MR. YOUNG: the tokens in Llama 2, right? 18 18 Q. Welcome back, Ms. Kambadur. 19 A. Yes, in this case I believe it's 19 Thanks. 20 referring to pre-training dataset sizes. 20 Can you tell me what a context Q. 21 Q. Okay. And then these rows in white, 21 window is? 22 right, these -- do you have any an understanding A. A context window is kind of like the Page 122 Page 124 1 what those rows are? 1 size of an input that a model can understand at 2 A. My understanding is that they were 2 one time. additional tokens that we had collected or 3 Q. Can it also relate to the length of 4 processed. 4 an output? 5 A. It can relate to the length of an 6 output. 7 Q. So when you say "input," do you mean something like a prompt that a user of a large 9 language model may feed into a large language 10 model? 11 A. The input could be a prompt from a 12 user, yes. 13 Q. Could it be in the form of a text 14 query, for example, a question? 15 A. Yes. 16 Q. And the output is what the large 17 language model gives out in response to the 18 prompt, right? 19 A. Yes. The output is what the model 20 produces. 21 Q. And is the length of an output limited by some of the technical specifications

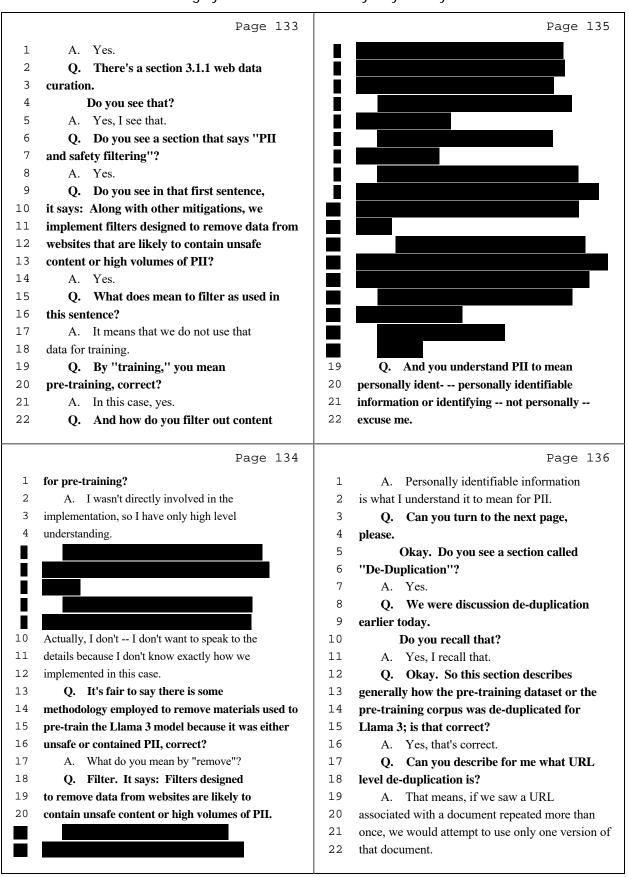
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	Page 125		Page 127
1	of an LLM?	1	Q. It's titled "The Llama 3 Herd of
2	A. Yes. The length of an output is	2 1	Models," correct?
3	limited.	3	A. Yes.
4	Q. And a model with a longer context	4	Q. It was published on or about
5	window would be able to, from what I understand,	5 .	July 23rd of 2024?
6	one, understand longer prompts; would that be	6	A. That sounds right.
7	fair to say?	7	Q. And if you go to page 72 you see a
8	A. Yeah. A longer context window		page bearing the header "Contributors and
9	allows you to have yes, an understanding of a	-	Acknowledgements."
10	longer input.	10	A. Yes, I do.
11	Q. A longer context window would mean	11	Q. Okay. The very first paragraph
12	that LLMs would also be able to generate longer		defines core contributors as people who worked on
13	outputs, right?		Llama 3 for at least two-thirds of the run time
14	A. Not necessarily.		on the project.
15	-	15	
		16	Do you see that? A. Yes, I do.
16	•		
17	that affect the output length and also a model	17	Q. And do you see your name I know
18	may just learned patterns to typically output		it's a long list under the list of core
19	short lengths of text or other outputs.		contributors somewhere in the middle of the
20	Q. Okay. Do you recall earlier today		block of text, I believe the name of the authors
21	we talked about the Llama 3.1 research paper?		are listed in alphabetic order by first name.
22	A. Yes.	22	A. Yes, I see it.
	Page 126		Page 128
1	Page 126 Q. Did you have a role in drafting that	1	Page 128 Q. What does mean that you worked on
1 2			
	Q. Did you have a role in drafting that	2]	Q. What does mean that you worked on
2	Q. Did you have a role in drafting that research paper?	2]	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on
2	Q. Did you have a role in drafting that research paper? A. A minor role.	2] 3 t 4	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project?
2 3 4	 Q. Did you have a role in drafting that research paper? A. A minor role. Q. Did you read the Llama 3.1 research 	2] 3 t 4	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project? A. That means it was my full-time focus
2 3 4 5	 Q. Did you have a role in drafting that research paper? A. A minor role. Q. Did you read the Llama 3.1 research paper? 	2] 3 t 4	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project? A. That means it was my full-time focus for at least two-thirds of the time from when we
2 3 4 5 6	 Q. Did you have a role in drafting that research paper? A. A minor role. Q. Did you read the Llama 3.1 research paper? A. The final version, not in entirety. 	2] 3 t 4 5 t	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project? A. That means it was my full-time focus for at least two-thirds of the time from when we started developing Llama 3 actively.
2 3 4 5 6 7	 Q. Did you have a role in drafting that research paper? A. A minor role. Q. Did you read the Llama 3.1 research paper? A. The final version, not in entirety. Q. Do you know if the Llama 3.1 	2] 3 1 4 5 1 6 8	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project? A. That means it was my full-time focus for at least two-thirds of the time from when we started developing Llama 3 actively. MR. YOUNG: And I am sorry. Can you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Did you have a role in drafting that research paper? A. A minor role. Q. Did you read the Llama 3.1 research paper? A. The final version, not in entirety. Q. Do you know if the Llama 3.1 research paper is available online from Meta's website? A. I believe it is, yes. MR. YOUNG: Okay. Mark as Plaintiffs' 5 a document we pulled from Meta's website yesterday. (Whereupon, Kambadur Exhibit 5, "The Llama 3 Herd of Models," was marked for identification.) BY MR. YOUNG: Q. Ms. Kambadur, do you recognize this document?	2 1 3 4 4 5 4 5 5 6 5 7 8 9 10 11 12 13 14 15 16 17 18 1 19	Q. What does mean that you worked on Llama 3 for at least two-thirds the run time on the project? A. That means it was my full-time focus for at least two-thirds of the time from when we started developing Llama 3 actively. MR. YOUNG: And I am sorry. Can you go briefly off record. Is there a way we can put a sign that says THE VIDEOGRAPHER: We are still on the record. The time right now is 12:28 p.m. We are off the record. (Whereupon, a brief recess was taken.) THE VIDEOGRAPHER: Time right now is 12:31 p.m. We are back on record. BY MR. YOUNG: Q. So, Ms. Kambadur, what is the run

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Page 139 Page 137 1 Q. What about document level A. Yes. 2 de-duplication? Q. And it says: We develop heuristics 3 A. That means, if we have a text to remove additional low quality documents, 4 outliers and documents with excessive document that is extremely similar to another 5 text document, we attempt to use only one version repetitions. 6 in our initial corpus. 6 Do you see that? 7 7 Q. You -- and de-duplication is A. Yes, I see that. 8 important because seeing the same text multiple 8 Q. Can you tell me what you understand 9 times could affect the weights of the model. 9 a low quality document to mean? 10 Would that be fair to say? 10 A. In this case, documents indicated by A. I don't fully understand the 11 11 heuristics that may be token inefficient. 12 question. Any -- any text can affect the weight 12 Q. Does that also -- also capture of the models that's trained -- that the model is 13 13 undesirable documents you want in your 14 trained on. So the question doesn't totally make 14 pre-training set? 15 15 sense. A. It could. 16 Q. So why did you de-duplicate the 16 Q. For example, in that second bullet point underneath "Heuristics filtering," it 17 pre-training dataset? 17

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A. We wanted to have a set of unique tokens or unique -- near unique -- sorry -unique -- let me correct that -- unique documents as near as we could in our initial corpus.

Q. And what does "line level

Page 140

1 de-duplication" mean? 2 Do you see that in the document? 3 A. Yes. 4 Q. Can you tell me what that is? 5 A. Give me a second to review this. 6 Q. No problem. Take your time. 7 A. Yeah. So it means that we, in some 8 cases, try to eliminate -- I'm not sure precisely 9 how we defined a line. If that -- I don't recall 10 if that was, like, a sentence or some other 11 parsing or some other chunk of text. 12 But on some chunk of text, we --13 some span of text, we attempted to de-duplicate 14 with other similar spans of texts that were 15

extremely repeated in our training corpus.

Q. So line of text, I think, appeared more than six times in each bucket of 30 -- 30Ms, that's 30 million documents, right?

A. That's what the paper says.

Q. Okay. Thank you.

So do you see the next section says

22 "Heuristic filtering"?

A. I don't recall exactly why we

2 filtered this, but adult content -- content is

3 somewhat subjective and generally, we found these

Q. Is that because you didn't want

adult content coming out of the Llama 3 model?

4 documents to be token inefficient anyways.

Q. So why were they token inefficient?

6 A. I don't investigate the pages

7 myself, so I can't really answer.

discusses adult websites.

A. Yes, I see that.

Do you see that?

Q. Who -- who would be able to give me that answer?

A. I'm not sure anyone was manually reviewing the adult content documents.

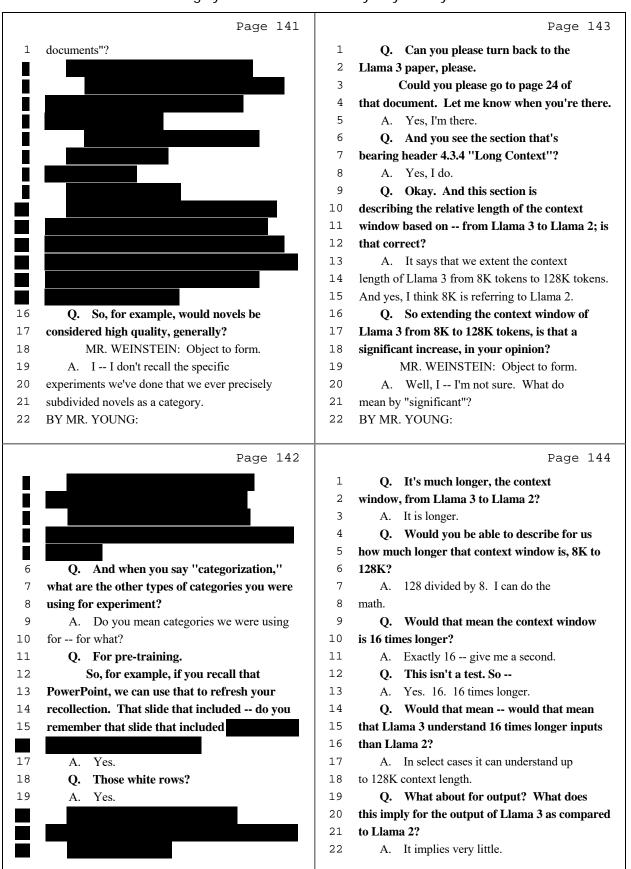


Q. Were there certain types of documents that were considered high quality or low quality?

A. What do you mean by "types of

35 (Pages 137 to 140)

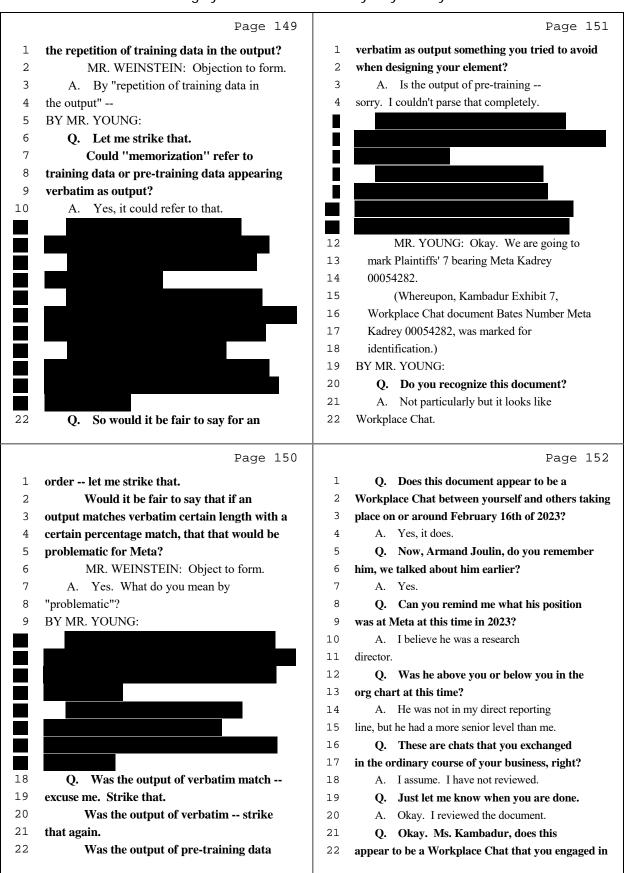
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	Page 145		Page 147
1	Q. Okay. You can set that document	1	document?
2	aside.	2	A. I am shared a lot of documents in my
3	I am going to mark as Plaintiffs' 6	3	job.
4	a document bearing Bates label Meta Kadrey	4	Q. You can set that document aside.
5	00034707.	5	Does Meta have an internal
6	(Whereupon, Kambadur Exhibit 6,	6	collaboration platform that it uses amongst
7	Document Bates Number Meta Kadrey 00034707,	7	employees?
8	was marked for identification.)	8	A. Yes.
9	BY MR. YOUNG:	9	Q. Would that include an internal
10	Q. Do recognize this document?	10	messaging application?
11	A. No.	11	A. Yes, we have an internal messaging
12	Q. Then I am going to pass around the	12	application.
13	metadata associated with this document.	13	Q. Is that Workplace?
14	MR. WEINSTEIN: I just want to be	14	A. The message application is Workplace
15	the record's clear. You are not going to	15	Chat.
16	mark it?	16	Q. You use Workplace I am sorry.
17	MR. YOUNG: Mark the next exhibit as	17	Workplace Chat is that?
18	6A.	18	A. Chat.
19	(Whereupon, Kambadur Exhibit 6A,	19	Q. Chat?
20	Document, was marked for identification.)	20	A. C-H-A-T.
21	BY MR. YOUNG:	21	Q. Do you use Workplace Chat to conduct
22	Q. Ms. Kambadur, do you see the	22	business at Meta?
	Page 146		Page 148
1	Document 6A?	1	A. Yes, we do.
2	A. Yes, I do.	2	Q. And are the messages you send on
3	Q. Okay. Do you see the field, "all	3	Workplace Chat saved by Meta?
4	custodians"?	4	A. I believe so.
5	A. Yes, I see it.	5	Q. Do you know what memorization is?
6	Q. Do you see your name there?	6	A. In what context?
7	A. Yes.	7	Q. In the generative AI context.
8	Q. So that means that this document was	8	A. Yes.
9	pulled from your custodial files.	9	Q. What describe for me what
10	Do you understand that?	10	memorization means in the generative AI context.
11	A. I don't understand exactly what that	11	A. Memorization means that we may have
12	means.	12	the ability to output content that is similar to
13	Q. That means that this document was	13	input.
14	collected from your files during the document	14	Q. Would you memorization can
15	collection process.	15	memorization excuse me. Let me start that
16	A. So potentially on a Google Drive I	16	over.
17	have access to or something like that?	17	Could memorization refer to the
18	Q. I think you would have to talk your	18	phenomenon of training data appearing verbatim in
19	counsel about that.	19	the generation of output?
20	A. Okay.	20	A. I am sorry. Can you repeat the
21	Q. But that does not refresh your	21	question?
22	recollection about whether or not you recall this	22	Q. Yeah. Could memorization refer to
		I	

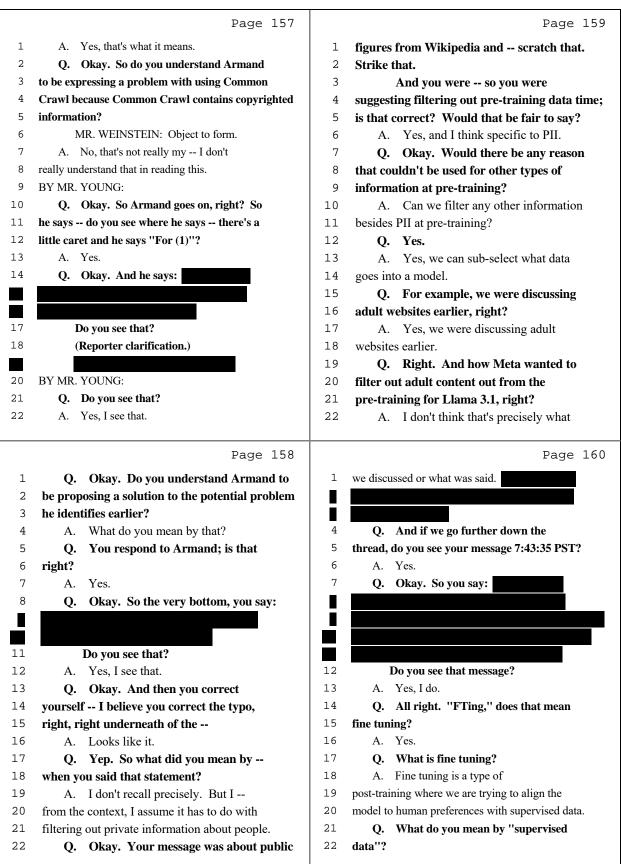
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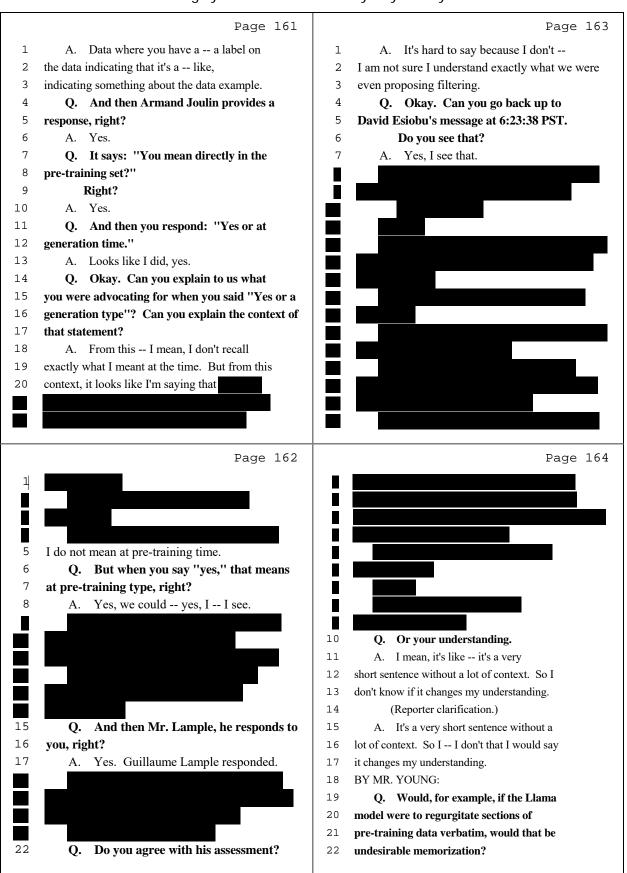
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Page 155 Page 153 BY MR. YOUNG: 1 with others on or about February 16th of 2023? 2 2 Q. Do you think it could be perhaps A. Yes. Q. Along with Armand Joulin, right? memorization means that -- would mean that the 3 model may regurgitate copyrighted information? 4 A. Armand is in the chat, yes. 5 A. I wouldn't want to speculate. 5 Q. And February 16th of 2023, that was 6 There's not enough context here. 6 before the Llama 1 model was released, correct? 7 7 A. I don't recall the exact release Q. So Armand goes on, right? He 8 dates. 8 says -- well, before we go -- so he refers to 9 9 Common Crawl, right? Q. That's all right. So if you look at 10 the top message Mr. Joulin says to you -- bearing 10 Do you see that? the timestamp 2:54 PST. 11 A. Yes, I see the reference to Common 11 12 Do you see that message? 12 Crawl. A. Yes, I see that message. 13 Q. Okay. And those -- do you 13 14 Q. He says: 14 understand to mean the Common Crawl datasets we were discussing earlier today? 15 16 A. Yes. Do you see that? 17 Q. Okay. And these are the Common 17 A. Yes. 18 Crawl datasets that were used to pre-train likely 18 19 19 the Llama 1 model, given the timing of this --Q. What did you understand Armand to 20 this message thread, right? 20 mean when he sent that message? 21 A. I'm not sure which model line he's 21 A. Essentially that you want your LLM to have correct association of facts that is true referring to in this message. But it's actually 22 Page 154 Page 156 1 to your pre-training corpus. 1 unlikely to be Llama 1. 2 Q. And hallucination, we discussed that 2 Q. Okay. 3 A. But it's possible -- actually, I'm briefly, that generally means that the LLM 3 4 outputs facts that are untrue, right? not -- I don't want to make a hard stance on 5 5 A. Yes. that. I'm not totally sure --Q. So Armand goes on. He says: 6 6 Q. Okay. 7 A. -- if he's -- it's referring to Llama 1 or Llama 2 or some other model. 9 Q. But he is referring to some Llama 10 10 model, right? Do you see that? 11 A. I am not even 100 percent sure if 11 A. Yes. 12 it's to a Llama model. 12 Q. Did you share Armand's concern with using data that contained copyrighted Q. Okay. So "e.g." -- do you see that 13 13 14 e.g.? 14 information? 15 15 A. I'm not even sure exactly what his A. Yes. 16 Q. Do you understand what e.g. means? 16 concern is from reviewing this. 17 A. I forget what it stands for, but 17 Q. Okay. Do you think his concern with 18 essentially, he's meaning it to say "for 18 using information that contained copyrighted 19 information is related to memorization? 19 example." 20 Q. Right. 2.0 MR. WEINSTEIN: Object to form. 21 Do you understand e.g. means -- is 2.1 A. It's possible but it's hard to tell the Latin abbreviation for "for example," right? 22 for sure.

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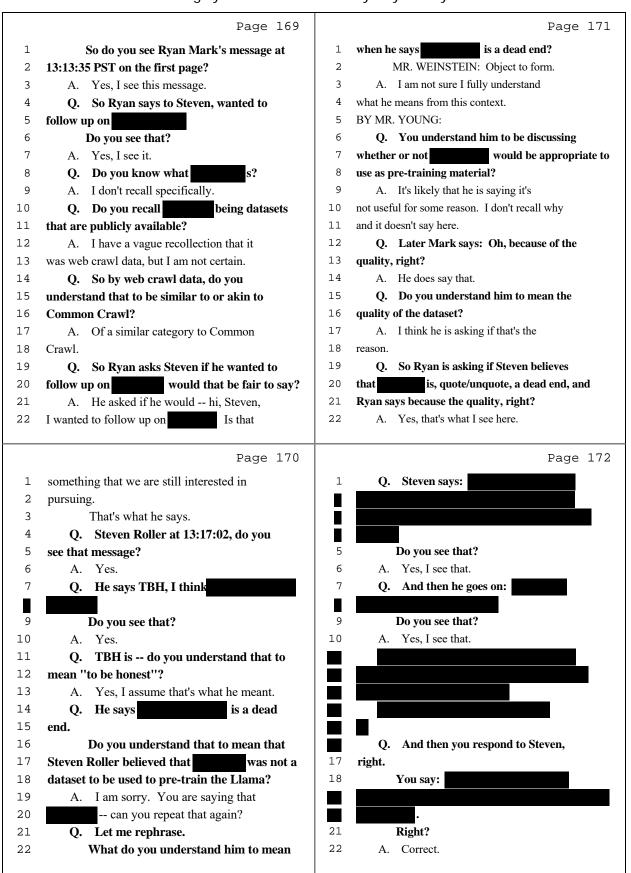
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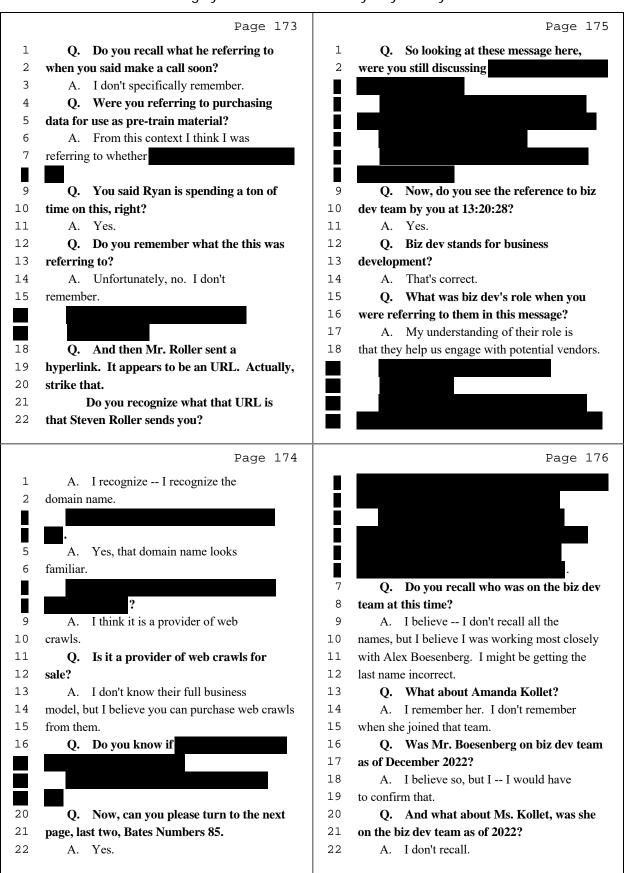
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	Page 165		Page 167
1	A. Sections of pre-training data. Can	1	beginning you share a document in the thread?
2	you define that more precisely?	2	A. I see what looks like a PNG file.
3	Q. Yes. Sure.	3	Q. What is a PNG file?
	Q. 165. Bazo.	4	A. I don't know what it stands for but
		5	it's typically an image.
		6	Q. The image or a screenshot, right?
		7	A. A screenshot as a type of image,
		8	yes.
		9	Q. So who is Ryan Mark?
10	MR. YOUNG: Okay. I'm finished with	10	A. He was a TPM that we used to work
11	this document. I think we've been going on	11	with.
12	for about an hour. So I think this might be	12	Q. What is a TPM?
13	a good time for a short break.	13	A. Technical product manager.
14	MR. WEINSTEIN: Great.	14	Q. What were Mr. Mark's
15	THE VIDEOGRAPHER: The time right	15	responsibilities at this time?
16	now is 1:22 p.m. We are off the record.	16	A. I am not sure I can speak
17	(Whereupon, a brief recess was	17	comprehensively to his responsibilities because I
18	taken.)	18	do not manage him, but he was assisting our team
19	THE VIDEOGRAPHER: Time right now is	19	with various operational efforts.
20	1:35 p.m.	20	Q. What do you mean by operations?
21	We are back on record.	21	A. For example, helping us get computer
22	MR. YOUNG: So we passed around	22	resources.
	Page 166		Page 168
1	what's been marked as Plaintiffs' Exhibit 8.	1	Q. What about acquiring datasets?
2	It's document bearing Bates label Meta Kadrey	2	A. It looks like he was helping with
3	00054284.	3	that from the context of these conversations, but
4	(Whereupon, Kambadur Exhibit 8,	4	I don't recall specifically.
5	Workplace Chat Bates Number Meta Kadrey	5	Q. Okay. And who is Steven Roller?
6	00052484, was marked for identification.)	6	A. Steven Roller was a research
7	BY MR. YOUNG:	7	engineer on my team at the time.
8	Q. Ms. Kambadur, have you had a chance	8	Q. Is Mr. Roller still with Meta?
9	to review that document?	9	A. No.
10	A. I have just skimmed it so far.	10	Q. Do you know where he has gone to?
11	Q. Do you recognize that document?	11	A. He is currently at Google DeepMind.
12	A. I don't specifically recall this	12	Let's just say Google, because I am exactly not
13	conversation, but it looks like a discussion with	13	sure what department but Google.
14	me and some colleagues.	14	Q. DeepMind is Google's AI division,
	Q. Does this appear to be a Workplace	15	right?
15		16	A. Yes. But on a second thought I am
16	Chat between yourself, Mr. Steven Roller, and Mr. Pyon Mork on or about December 2nd of 20222	17	not precisely sure how they are arranized
16 17	Ryan Mark on or about December 2nd of 2022?	17	not precisely sure how they are organized
16 17 18	Ryan Mark on or about December 2nd of 2022? A. Yes, it does.	18	currently or what department he is in.
16 17 18 19	Ryan Mark on or about December 2nd of 2022? A. Yes, it does. Q. Were these messages exchanged during	18 19	currently or what department he is in. Q. But do you understand at some point
16 17 18 19 20	Ryan Mark on or about December 2nd of 2022?A. Yes, it does.Q. Were these messages exchanged during the ordinary course of business?	18 19 20	currently or what department he is in. Q. But do you understand at some point Google DeepMind was Google's AI division?
16 17 18 19 20 21	Ryan Mark on or about December 2nd of 2022? A. Yes, it does. Q. Were these messages exchanged during the ordinary course of business? A. Yes.	18 19 20 21	currently or what department he is in. Q. But do you understand at some point Google DeepMind was Google's AI division? A. One of their AI divisions.
16 17 18 19 20	Ryan Mark on or about December 2nd of 2022?A. Yes, it does.Q. Were these messages exchanged during the ordinary course of business?	18 19 20	currently or what department he is in. Q. But do you understand at some point Google DeepMind was Google's AI division?

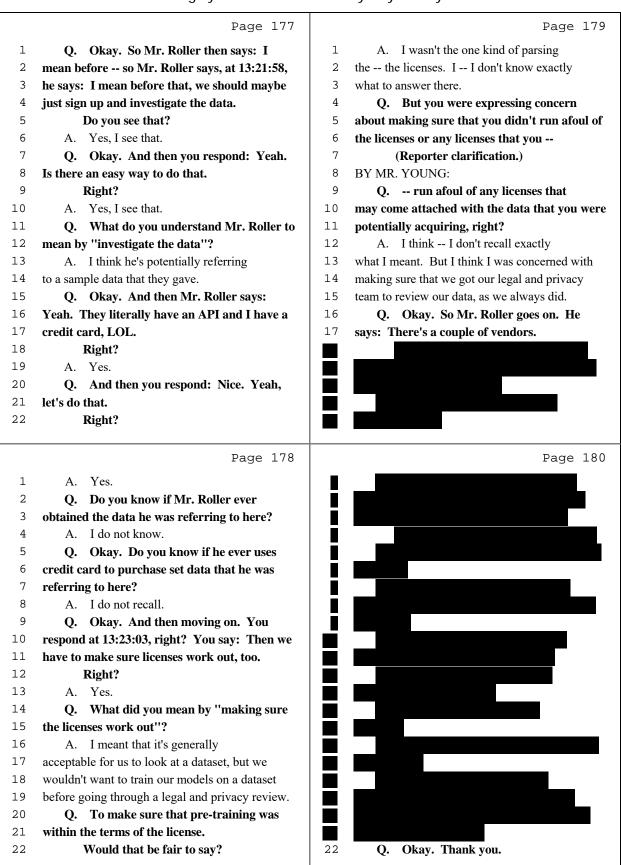
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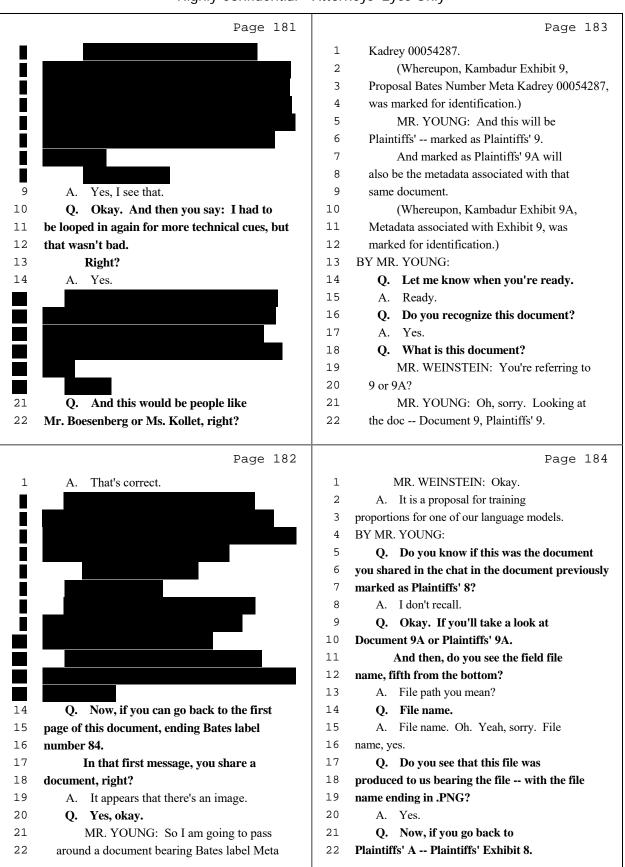
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1	Is that file name, that PNG file	1	some of these datasets.
2	path file name the same as the document that you	2	So what is Stack Exchange?
3	shared in your message at 7:22:16?	3	(Reporter clarification.)
4	A. It's a really long file name.	4	A. So I'm I want to clarify that I
5	Q. Yes.	5	didn't process any of this data. So I it
6	A. Give me a second.	6	would all be a little bit assumptions or guesses
7	Q. No problem. Take your time.	7	based on the names.
8	A. Yes, it looks the same.	8	BY MR. YOUNG:
9	Q. Does that suggest to you that	9	Q. Okay. Well, let me back up.
10	these that this was the file that you share in	10	Would it be fair to say that this
11	that message there?	11	likely came from someone you managed or
12	A. It appears so, yes.	12	supervised?
13	Q. So turning that back to	13	A. Based on the context, I think it
14	Plaintiffs' 9, if you look at the leftmost	14	actually came from the team that the the
15	column, can you describe for me what that column	15	people who were working on the data mix for
16	is?	16	Llama 1, which were not people I directly
17	A. It's internal names of datasets.	17	managed.
18		18	Q. So would it be fair to say that this
19	• •	19	
20	says: To use in the large right, right? A. Yes.	20	represents the, quote/unquote, data mix for what would become Llama 1?
21	Q. Well, is what does that mean?	21	A. That, I am not certain. It's I
22	A. I'm not 100 percent sure. But based	22	
22	A. Thi not 100 percent sure. But based	22	think it is a proposal of potential data mixes
	Page 186		Page 188
			1490 100
1	on the context and the date, I'm assuming this	1	for that model.
1 2	on the context and the date, I'm assuming this may be yeah, it it could be one of our	1 2	
	_		for that model.
2	may be yeah, it it could be one of our	2	for that model. Q. That would be what is reflected in
2	may be yeah, it it could be one of our large language model runs.	2 3	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct?
2 3 4	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message	2 3 4	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am
2 3 4 5	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large	2 3 4 5	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal.
2 3 4 5 6	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working	2 3 4 5 6	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be.
2 3 4 5 6 7	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct?	2 3 4 5 6	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these
2 3 4 5 6 7 8	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file,	2 3 4 5 6 7	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right?
2 3 4 5 6 7 8 9	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022.	2 3 4 5 6 7	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI
2 3 4 5 6 7 8 9	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file,	2 3 4 5 6 7	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset.
2 3 4 5 6 7 8 9 10	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten	2 3 4 5 6 7 1 9	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that
2 3 4 5 6 7 8 9 10 11 12	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image?	2 3 4 5 6 7 1 9 10 11 12	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right?
2 3 4 5 6 7 8 9 10 11 12	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I	2 3 4 5 6 7 10 11 12 13	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that
2 3 4 5 6 7 8 9 10 11 12 13	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image?	2 3 4 5 6 7 10 11 12 13 14	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I	2 3 4 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I perhaps someone shared the original file with me.	2 3 4 5 6 7 9 10 11 12 13 14 15 16	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't know if it was downloaded from Eleuther or the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I perhaps someone shared the original file with me. Q. Now, in that leftmost column, the	2 3 4 5 6 7 9 10 11 12 13 14 15 16	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't know if it was downloaded from Eleuther or the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I perhaps someone shared the original file with me. Q. Now, in that leftmost column, the white column, those are the list of the datasets	2 3 4 5 6 7 9 10 11 12 13 14 15 16	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't know if it was downloaded from Eleuther or the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I perhaps someone shared the original file with me. Q. Now, in that leftmost column, the white column, those are the list of the datasets that were used in this training model.	2 3 4 5 6 7 9 10 11 12 13 14 15 16	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't know if it was downloaded from Eleuther or the Pile.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	may be yeah, it it could be one of our large language model runs. Q. Okay. If you look at the message thread in which you attach this, this was a large language model that you were running in December 2022; is that correct? A. That someone was presumably working on in December 2022. Q. Okay. Well, you shared this file, right? A. Yes. Q. Okay. So how would you have gotten this chart or this image? A. How would I have gotten it? I perhaps someone shared the original file with me. Q. Now, in that leftmost column, the white column, those are the list of the datasets that were used in this training model. Would that be fair to say?	2 3 4 5 6 7 9 10 11 12 13 14 15 16	for that model. Q. That would be what is reflected in the column titled "Proposition 2," correct? A. That's a proposition is what I am guessing, proposal. Q. So let's walk through some of these datasets, what you understand them to be. Books3 is the dataset that came from EleutherAI in the Pile, right? A. I actually don't know the origin of this dataset. Q. But Books3 was the same dataset that we were discussing earlier today, right? A. Books3 has the same name. I don't know if it was downloaded from Eleuther or the

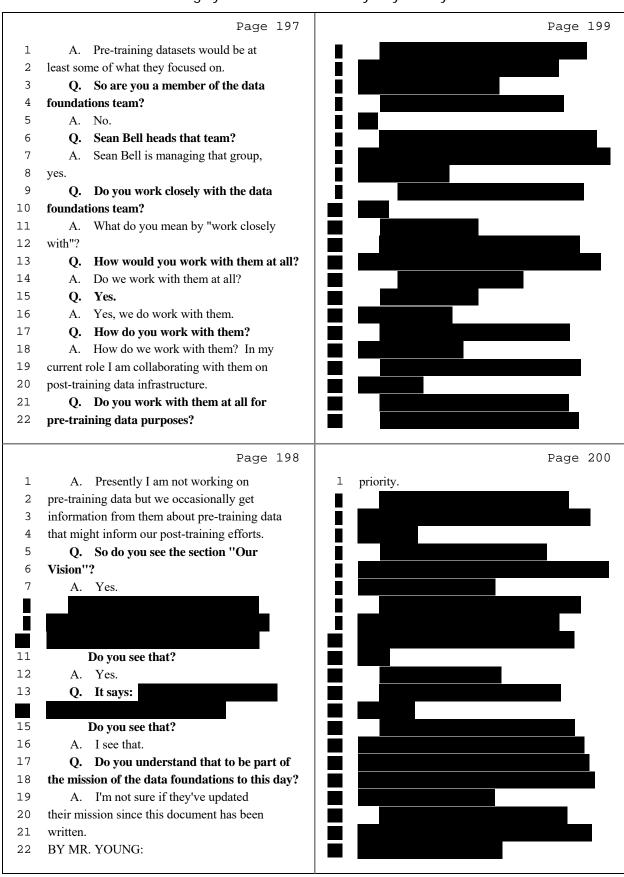
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1	A. Yes, I see t		1	source licenses and code that's been posed on
_	A. Yes, I see t	nat.	2	GitHub, for example, may have attribution terms.
			3	Do you understand that?
			4	A. I understand what an attribution
			5	term is, yes.
				Q. If someone were to take your code
8	O Then on V	v? That's arXiv, right?	7	that you published and did not provide
	-	, 0	8	attribution, do you would you be happy with
9		e pronounce it archive,	9	that?
10	if that's what you are	e asking.	10	MR. WEINSTEIN: Object to form.
11	Q. Yes.		11	A. I guess like, what do you mean would
12	A. Yes.		12	I be happy with that? I don't precisely
13	•	is the Greek letter Chi?	13	understand.
14		ually sure why, if that	14	BY MR. YOUNG:
15	sense.		15	Q. Would you be pleased with that?
16	Q. Thank you		16	A. I think it would likely depend on
17		b, GitHub is code, right?	17	the context of the use.
18		this context likely refers	18	Q. What is C4?
19	to the GitHub code	•	19	A. C4 is, I believe, a version of
20	•	ever used GitHub yourself?	20	Common Crawl.
21	A. Yes.		21	Q. This is the colossal I forget
22	Q. Have you	published code under	22	what it is myself. We will skip that.
		D 100		D 100
_		Page 190		Page 192
1	GitHub?		1	What is CCNet?
2	A. What do ye	ou mean by "published"?	2	What is CCNet? A. I believe that's another version of
2	A. What do you Q. Have you	ou mean by "published"? uploaded code onto a	2 3	What is CCNet? A. I believe that's another version of Common Crawl.
2 3 4	A. What do you Q. Have you repository on GitH	ou mean by "published"? uploaded code onto a	2 3 4	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that
2	A. What do you Q. Have you repository on GitH A. Yes.	ou mean by "published"? uploaded code onto a ub?	2 3 4 5	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is?
2 3 4	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you u	ou mean by "published"? uploaded code onto a ub? pload codes subject to an	2 3 4 5 6	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers
2 3 4 5	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license	ou mean by "published"? uploaded code onto a ub? pload codes subject to an on GitHub?	2 3 4 5	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia.
2 3 4 5 6	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes	ou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub?	2 3 4 5 6	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset
2 3 4 5 6 7	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn	ou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. ow if anyone has ever used	2 3 4 5 6 7	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed
2 3 4 5 6 7 8	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you u open source license A. Likely, yes Q. Do you kn your code that you	ou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. ow if anyone has ever used published on GitHub in	2 3 4 5 6 7 8	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model?
2 3 4 5 6 7 8 9	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term	pou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in n of your license?	2 3 4 5 6 7 8 9	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing
2 3 4 5 6 7 8 9	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term	ou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. ow if anyone has ever used published on GitHub in	2 3 4 5 6 7 8 9	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include.
2 3 4 5 6 7 8 9 10	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term	pou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in n of your license?	2 3 4 5 6 7 8 9 10	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition
2 3 4 5 6 7 8 9 10 11 12	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you u open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it.	pou mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in n of your license?	2 3 4 5 6 7 8 9 10 11 12	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include.
2 3 4 5 6 7 8 9 10 11 12 13	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you u open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it.	pu mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in m of your license? e particular knowledge of	2 3 4 5 6 7 8 9 10 11 12 13	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition
2 3 4 5 6 7 8 9 10 11 12 13 14	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that?	pu mean by "published"? uploaded code onto a ub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in m of your license? e particular knowledge of	2 3 4 5 6 7 8 9 10 11 12 13	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that?	ploaded code onto a sub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in m of your license? e particular knowledge of u be happy if someone did	2 3 4 5 6 7 8 9 10 11 12 13 14	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that? A. Would I be what?	ploaded code onto a sub? pload codes subject to an e on GitHub? s. now if anyone has ever used published on GitHub in m of your license? e particular knowledge of u be happy if someone did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes. Q. It has a number of numbers in it.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that? A. Would I be what?	ploaded code onto a sub? pload codes subject to an e on GitHub? now if anyone has ever used published on GitHub in m of your license? the particular knowledge of the happy if someone did the happy if someone did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes. Q. It has a number of numbers in it. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that? A. Would I be what? Q. Used your license?	ploaded code onto a sub? pload codes subject to an e on GitHub? now if anyone has ever used published on GitHub in m of your license? the particular knowledge of the happy if someone did the happy if someone did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes. Q. It has a number of numbers in it. A. Yes. Q. Do you know what those numbers mean?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that? A. Would I be what? Q. Used your license?	ploaded code onto a sub? pload codes subject to an e on GitHub? so on GitHub? so ow if anyone has ever used published on GitHub in m of your license? the particular knowledge of the happy if someone did the happy if someone did the code in violation of its	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes. Q. It has a number of numbers in it. A. Yes. Q. Do you know what those numbers mean? A. Not completely.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. What do you Q. Have you repository on GitH A. Yes. Q. Did you us open source license A. Likely, yes Q. Do you kn your code that you violation of the term A. I don't hav it. Q. Would you that? A. Would I be what? Q. Used your license? A. It might de circumstances.	ploaded code onto a sub? pload codes subject to an e on GitHub? so on GitHub? so ow if anyone has ever used published on GitHub in m of your license? the particular knowledge of the happy if someone did the happy if someone did the code in violation of its	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	What is CCNet? A. I believe that's another version of Common Crawl. Q. And Wikipedia, do you know what that is? A. I assume in this context it refers to documents scraped from the website Wikipedia. Q. Which comprised the trading dataset used for pre-training this model or this proposed model? A. This proposition is showing Wikipedia as an option to include. Q. So the column labelled "Proposition 2," do you see that column? A. Yes. Q. It has a number of numbers in it. A. Yes. Q. Do you know what those numbers mean? A. Not completely. Q. Can you tell us what your

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			Page 195
1	weighting.	1	A. Yes, I said that.
2	Q. And the column next to it is	2	Q. Okay. With Genesis meaning what
3	"Percent," right?	3	would become the Llama 1 model?
4	A. That's what it's labeled.	4	A. Yes.
5	Q. Does that column, "Percent," seem to	5	Q. Then you see a message 7:23:05: Got
6	be also be indicative of some sort of weighting?	6	the rest of this image. As we guessed, they
7	A. Yes.	7	aren't using fiction or no OSS GitHub.
8	Q. By "weighting," you mean weighting	8	A. Yes, I see that.
9	of the dataset, right?	9	Q. When they are saying "fiction," do
10	A. I mean in the context of the first	10	you understand that to mean Libgen fiction? A. No. I am not sure.
11	column, I think it's simply a math tool to get	11	
12	the other columns to add up right. In the	12	Q. What do you thank you. Okay.
13	context of the percentage, I think it's what	13	You can set that document aside.
14	percentage of the proposed training corpus row	14	Okay. Do you know who Sean Bell is? A. Yes.
15	would comprise.	15	
16	Q. Okay. In the "Number of Tokens"	16 17	Q. Who is Sean Bell?A. He is currently the manager
17	column, that represents number of tokens came	18	-
18	from that dataset, right?		supporting our data foundations team in gen AI.
19	A. I am not certain if this is raw	19	Q. Do you recall receiving a document
20	tokens or weighted tokens.	20 21	describing the mission and vision of the Data and
21 22	Q. What is the difference?A. I am not sure if this is the	22	Knowledge Foundation? A. Yes.
22	A. I am not sure it this is the	22	A. 1 es.
	Page 194		Page 196
1	original number of tokens or multiplied by the	1	MR. YOUNG: I am going to mark
2	number of epochs.	2	Plaintiffs' 10 document bearing Bates label
3	Q. Can you explain for us again what	3	Meta Kadrey 00055255.
4	epochs mean?	4	(Whereupon, Kambadur Exhibit 10,
5	A. Epochs would be how many times we	5	Mission and vision statement Bates Number
6	provide the model this data as input.	6	Meta Kadrey 00055255, was marked for
7	Q. So if you go back to the document	7	identification.)
8	previously labeled as Plaintiffs' 8, message	8	BY MR. YOUNG:
9	thread in which you shared this document, so do	9	Q. Ms. Kambadur, do you recognize this
10	you see how you respond, say: Great. Thanks for	10	document?
11	starting this, took a look and added a few	11	A. I recognize that I saw at least one
12	comments.	12	version of this document previously.
13	A. I see that.	13	Q. Can you describe what this document
14	Q. Do you recall what your comments	14	is?
15	were?	15	A. It's a mission and vision statement
16	A. No. It's not really clear from the	16	for the data foundations team.
		17	Q. What is the data foundations team?
17	context if the comments were on this document or		
18	from some other document.	18	A. It's a group that was formed early
18 19	from some other document. Q. You then follow up: One last thing	19	2024 to focus on foundational model training.
18 19 20	from some other document. Q. You then follow up: One last thing we might want to/need to deal with, is discussing	19 20	2024 to focus on foundational model training. It's a foundation model training data.
18 19 20 21	from some other document. Q. You then follow up: One last thing we might want to/need to deal with, is discussing co release with Genesis.	19 20 21	2024 to focus on foundational model training. It's a foundation model training data. Q. So by that do you mean pre-training
18 19 20	from some other document. Q. You then follow up: One last thing we might want to/need to deal with, is discussing	19 20	2024 to focus on foundational model training. It's a foundation model training data.

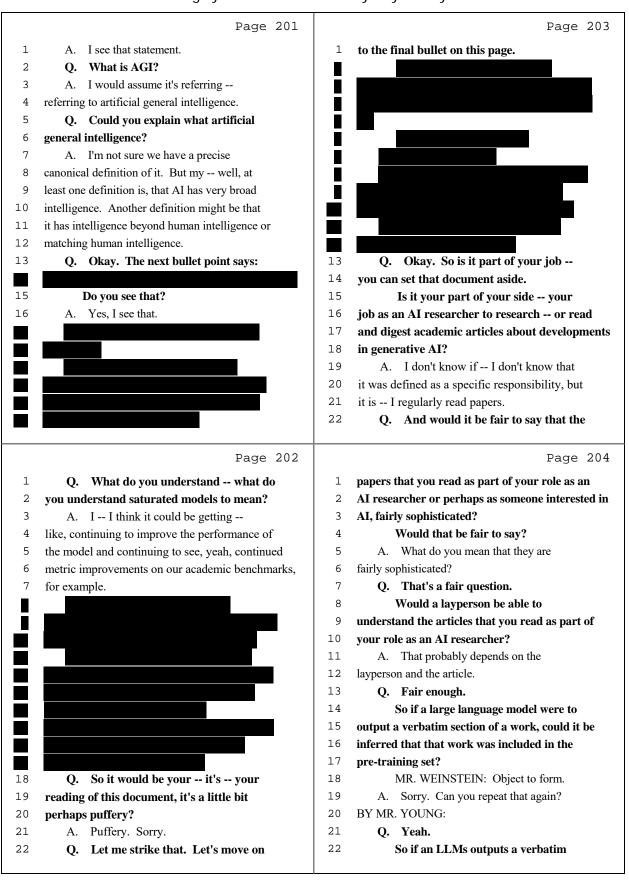
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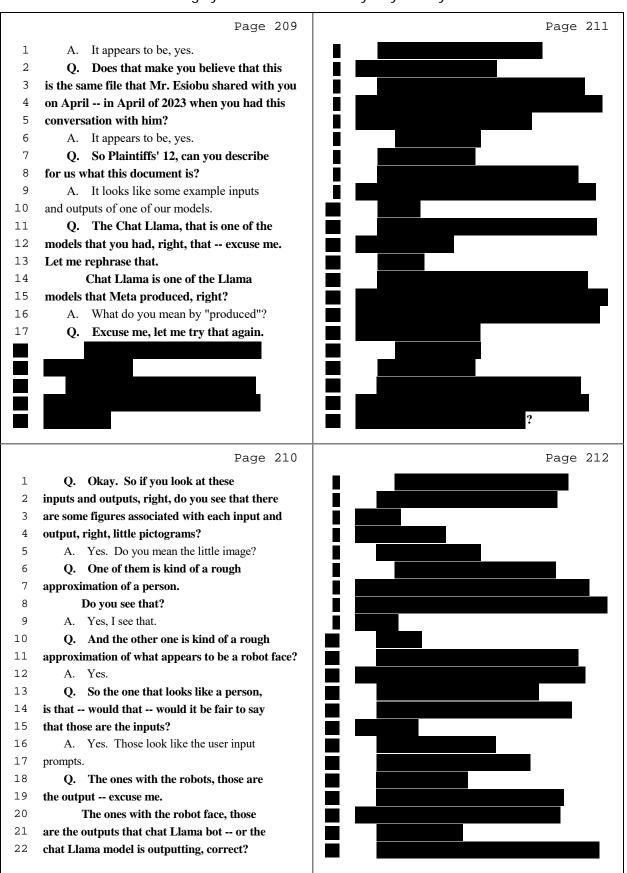


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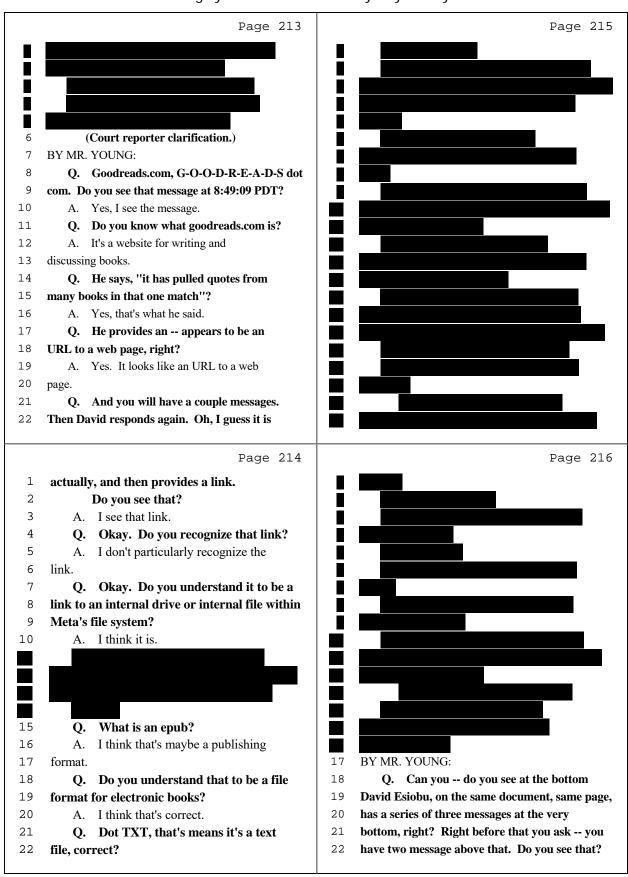
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	Page 205		Page 207
1	section of a work, could you infer that that work	1	time the Llama 1 model or shortly after the
2	was included in the pre-training set?	2	Llama 1 model was released?
3	A. What do you mean by "work"?	3	A. I don't recall the exact date of
4	Q. So, for example, a piece of text or	4	Llama 1 release. That was was that February?
5	a book.	5	Q. Yes.
6	A. I don't think you would have	6	A. So maybe this is a couple months
7	100 percent certainty that it it's in the	7	later.
8	pre-training corpus and you certainly wouldn't	8	Q. So at this point, Llama was already
9	have any level of certainty of where that text	9	available, right?
10	snippet came from originally.	10	A. Yes.
11	Q. But certainly a possibility, right?	11	Q. And David's first message goes:
12	MR. WEINSTEIN: Object to form.	12	Q. I and a second group group
13	A. Sorry. Is what a possibility?	13	Do you see that?
14	BY MR. YOUNG:	14	A. Yes, I see that.
15	Q. That the work that was being	15	Q. Okay. And then he shares a file
16	regurgitated verbatim was included in the	16	with you, right?
17	pre-training set.	17	A. Looks like there's an image.
18	A. If you find a text output of a model	18	Q. Yeah. It's a PNG file?
19	that it's possible that it could match something	19	A. Yes.
20	provided in an input. But we generally see that	20	MR. YOUNG: So I am going to mark as
21	in, like in very limited scenarios, very small	21	Plaintiffs' 12, a document bearing Bates
22	percentages and very small spans of text output.	22	label Meta Kadrey 00054435, and also as 12A,
	Page 206		Page 208
1	MR. YOUNG: All right. Let's mark	1	the metadata associated with that document.
2	as Plaintiffs' 11, a document bearing Bates	2	(Whereupon, Kambadur Exhibit 12,
3	Number Meta Kadrey 00054433.	3	File Bates Number Meta Kadrey 00054435, was
4	(Whereupon, Kambadur Exhibit 11,	4	marked for identification.)
5	Chat message Bates Number Meta Kadrey	5	(Whereupon, Kambadur Exhibit 12A,
6	00054433, was marked for identification.)	6	Metadata for Exhibit 12, was marked for
7	MR. YOUNG: So I think we've been	7	identification.)
8	going little less than an hour. So let's	8	BY MR. YOUNG:
9	finish this document and we can take a break.	9	Q. Do you recognize the document that's
10	BY MR. YOUNG:	10	been marked as Plaintiff's 12?
11	Q. Do you recognize this document,	11	A. I have a vague recollection.
12	Ms. Kambadur?	12	Q. Do you recall this as the file do
13	A. I don't particularly recognize the	13	you recall this is the file that Mr. Esiobu
14	conversation, but it it looks like a chat	14	shared with you on this message thread? So
15	between me and a teammate.	15	what's place
16 17	Q. This is a Workplace does this	16	A. I don't specifically recall, but.
17	appear to be a Workplace Chat between you and	17	Q. If you look at what's been marked as
18 19	Mr. Esiobu that took place on or around April 5,	18	Plaintiff's 12A, do you see the file name row? A. Yes.
20	2023, in the regular course of business?	19 20	
21	A. Yes, it appears to be.Q. Okay. And you and Mr then	21	Q. Is that the same file name as the file that Mr. Esiobu shared with you in that
22	this and April 5, 2023, was that about the	22	Workplace Workplace thread?
22	tino and April 3, 2023, was that about the		morapiace morapiace initau;

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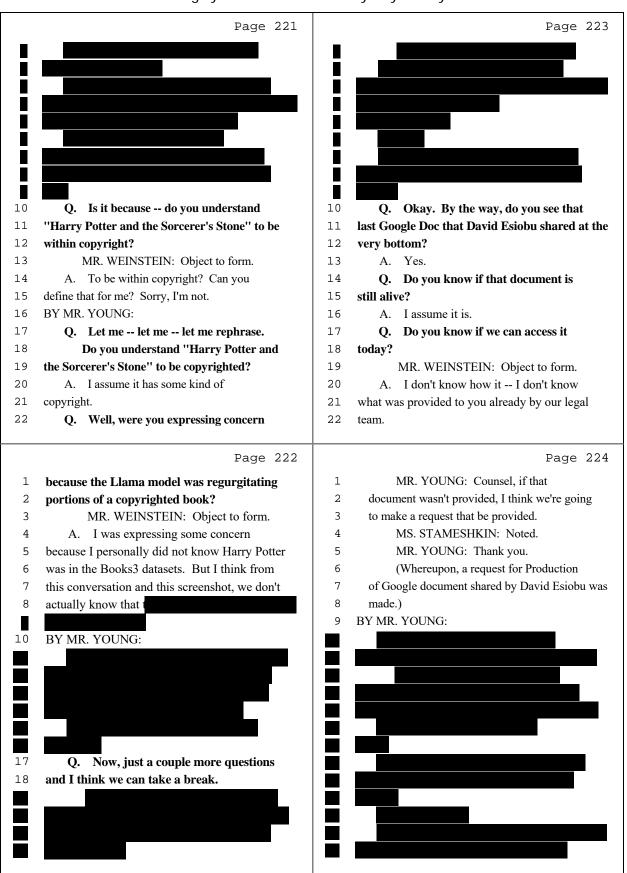
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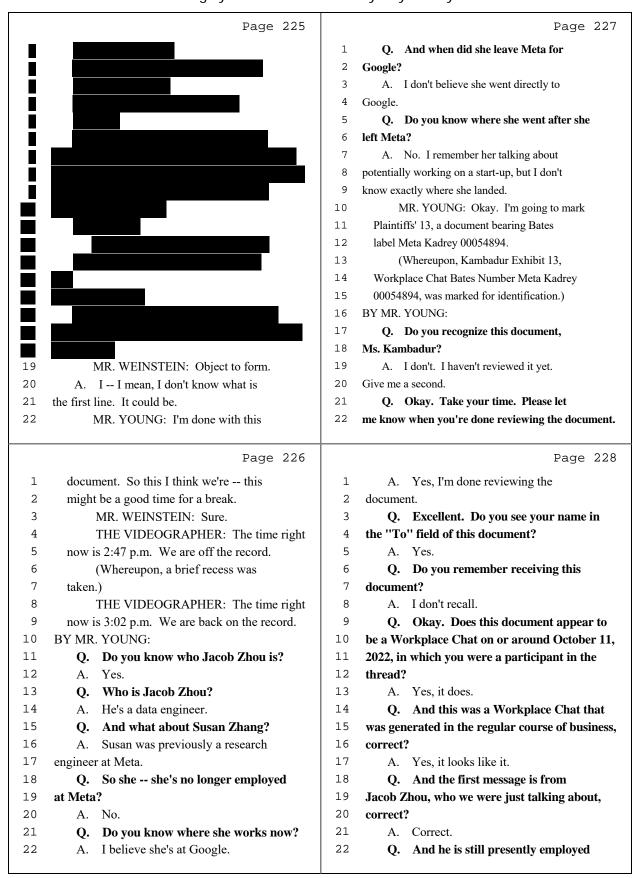
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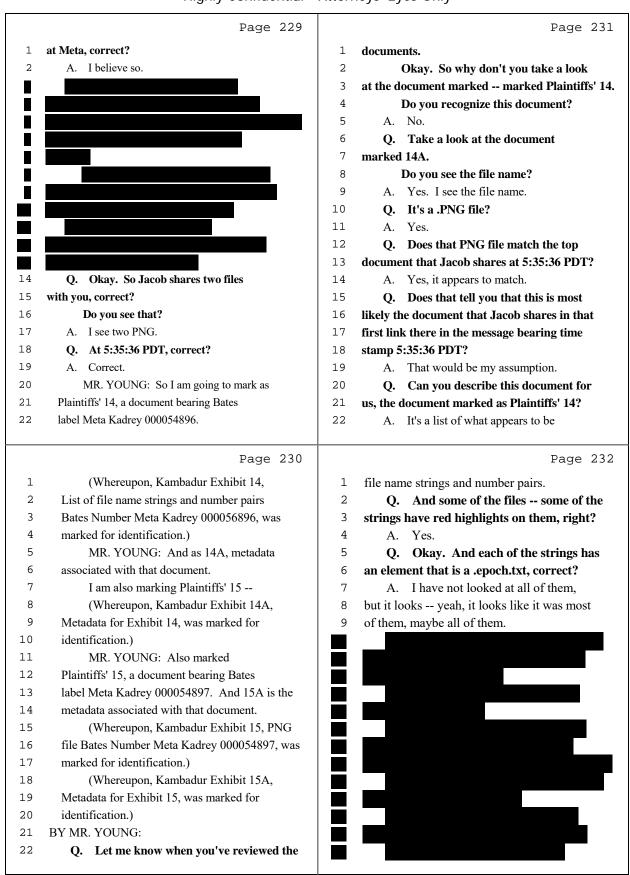
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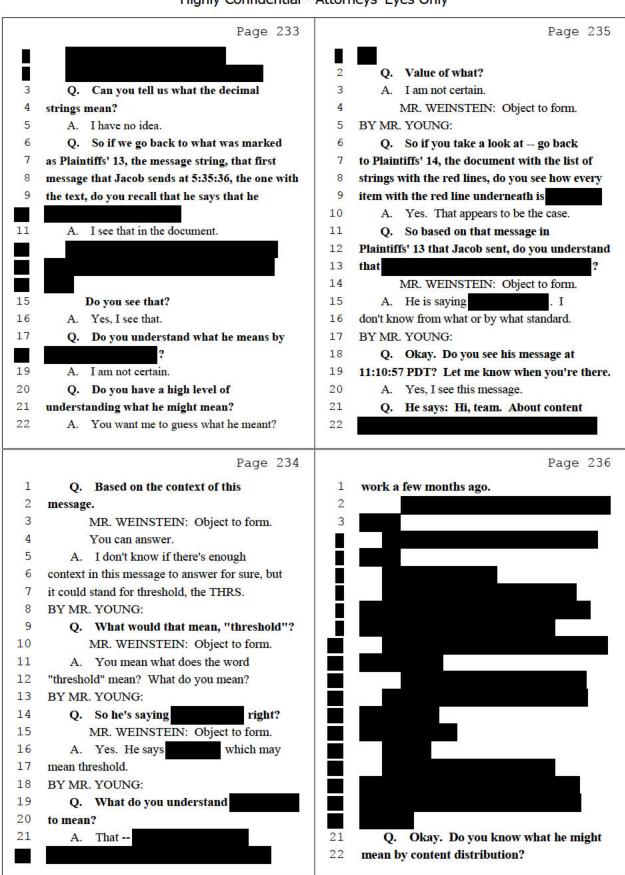
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	Page 237		Page 239
1	A. I can I don't recall particularly	1	label, but it could be some other verification
2	but I could hazard a guess based on the context,	2	method.
3	I suppose.	3	Q. So do you know what the Pile.CC
4	Q. That's all right. Let's move on.	4	do you know who he is referring to?
5	He says: TLDR.	5	A. I can make a guess, but I don't know
6	Do you understand to mean too long,	6	for sure.
7	didn't read?	7	Q. So is that a dataset contained
8	A. Yes.	8	within the Pile?
9	Q. It goes too long, didn't read and	9	MR. WEINSTEIN: Object to form.
10	then he's basically summarizing a message, right?	10	A. I don't know. I assume it has some
11	Do you understand TLDR to	11	relation to Pile.
12	essentially be summarizations?	12	BY MR. YOUNG:
13	A. I wouldn't say it's not necessarily	13	Q. So do you see Susan Zhang's responds
14	summarizing a message. It might just be giving a	14	to him at 16:03:03 PDT, right?
15	briefer description. That's not actually a	15	A. Yes.
16	summary of there may not be a longer version	16	Q. So she says: Whoa, how did you have
17	that exists. He may be just be giving a brief	17	Books3 in this analysis already back then?
18	description.	18	Do you see that?
19	Q. Okay. He says: I basically	19	A. Yes.
20	reproduce the topic analysis on the Pile paper.	20	Q. Okay. She is referring to an
21	He use Pile.CC to train an LDA an inference on	21	analysis that Jacob links to there, right, at
22	other corpuses.	22	GitHub?
	Page 238		Page 240
1	Page 238 What is an LDA?	1	Page 240 A. I assume so.
1 2		1 2	
	What is an LDA?		A. I assume so.
2	What is an LDA? A. I forget precisely what it stands	2	A. I assume so.Q. Did you examine Jacob's analysis
2	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it	2	A. I assume so.Q. Did you examine Jacob's analysis yourself?
2 3 4	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it wrong.	2 3 4	A. I assume so.Q. Did you examine Jacob's analysis yourself?A. I don't recall.
2 3 4 5	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it wrong. Q. Can you generally describe what an	2 3 4 5	 A. I assume so. Q. Did you examine Jacob's analysis yourself? A. I don't recall. Q. But Susan is expressing surprise
2 3 4 5 6	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it wrong. Q. Can you generally describe what an LDA is?	2 3 4 5 6	 A. I assume so. Q. Did you examine Jacob's analysis yourself? A. I don't recall. Q. But Susan is expressing surprise because it looks like Jacob used Books3 in that
2 3 4 5 6 7	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it wrong. Q. Can you generally describe what an LDA is? MR. WEINSTEIN: Object to form.	2 3 4 5 6 7	 A. I assume so. Q. Did you examine Jacob's analysis yourself? A. I don't recall. Q. But Susan is expressing surprise because it looks like Jacob used Books3 in that analysis, correct?
2 3 4 5 6 7 8	What is an LDA? A. I forget precisely what it stands for. I have a guess but I don't want to say it wrong. Q. Can you generally describe what an LDA is? MR. WEINSTEIN: Object to form. A. In this case he is talking about an	2 3 4 5 6 7 8	 A. I assume so. Q. Did you examine Jacob's analysis yourself? A. I don't recall. Q. But Susan is expressing surprise because it looks like Jacob used Books3 in that analysis, correct? A. I am not sure. I could guess based
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	Thighly Confidential -		
	Page 241		Page 243
1	Q. Do you see Jacob's message at	1	(Whereupon, Kambadur Exhibit 16,
2	17:48:56 PDT?	2	Workplace Chat Bates Number Meta Kadrey
3	A. Yes.	3	00074155, was marked for identification.)
4	Q. And five numbers there, right?	4	BY MR. YOUNG:
5	A. Yes.	5	Q. Why don't you take a moment to
6	Q. What does Jacob say under 1?	6	review the document and let me know when you're
7	A. You want me to just the text.	7	ready?
8	Q. Yes.	8	A. Yes, I reviewed the document.
9	A. Books3 is included in the Pile, so I	9	Q. Does this document appear to be a
10	took it for free.	10	Workplace thread a Workplace Chat between
11	Q. He has little tilde at the very end,	11	yourself and others on or around March 29, 2023?
12	right, a little squiggly?	12	A. Yes, it does.
13	A. Yes.	13	Q. And this was created in the regular
14	Q. Do you understand that squiggly to	14	course of business?
15	have any meaning?	15	A. It appears to be.
16	A. If it does, I don't know what	16	Q. And let's go over some of the
17	meaning.	17	participants in this thread we haven't spoken
18	Q. Do you know if squigglies convey	18	about before.
19	playfulness or perhaps do you know if	19	Who is Sergey Edunov?
20	squiggles convey playfulness perhaps?	20	A. He's a research director at Meta.
21	A. I've never seen that before, but	21	Q. And was he a research director at
22	it's possible. I don't recall seeing it before	22	Meta as of March 29, 2023?
	respondent rush recum seeing it cerete		17 Ctd us of 17 th Ctd 27, 2025.
	Page 242		Page 244
_	•		
1	at least.	1	A. Yes.
2	Q. Reading this message, do you	1 2	A. Yes.Q. And what about Moya Chen, who is
2	Q. Reading this message, do you	2	Q. And what about Moya Chen, who is
2	Q. Reading this message, do you understand that Jacob to have taken Books3	2	Q. And what about Moya Chen, who is that?
2 3 4	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it?	2 3 4	Q. And what about Moya Chen, who is that? A. She is a research engineer.
2 3 4 5	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form.	2 3 4 5	 Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta?
2 3 4 5 6	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or	2 3 4 5 6	 Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to
2 3 4 5 6 7	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't	2 3 4 5 6 7	 Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break.
2 3 4 5 6 7 8	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded	2 3 4 5 6 7 8	 Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you.
2 3 4 5 6 7 8	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything.	2 3 4 5 6 7 8	 Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've
2 3 4 5 6 7 8 9	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG:	2 3 4 5 6 7 8 9	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct?
2 3 4 5 6 7 8 9 10	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I	2 3 4 5 6 7 8 9 10	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about
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2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's	2 3 4 5 6 7 8 9 10 11 12 13	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also be referring to a lack of extra work.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also be referring to a lack of extra work. BY MR. YOUNG:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual? A. Yes. Q. Okay. So do you see Moya Chen's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also be referring to a lack of extra work. BY MR. YOUNG: Q. Okay. You can set that aside	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual? A. Yes. Q. Okay. So do you see Moya Chen's doc message at 7:05:55 PDT?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also be referring to a lack of extra work. BY MR. YOUNG: Q. Okay. You can set that asidedocument aside.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual? A. Yes. Q. Okay. So do you see Moya Chen's doc message at 7:05:55 PDT? She asks Guillaume: Do you have the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Reading this message, do you understand that Jacob to have taken Books3 without paying anything for it? MR. WEINSTEIN: Object to form. A. It's hard to precisely interpret or parse this sentence. For example, it doesn't tell us if he's actually directly downloaded anything. BY MR. YOUNG: Q. What do you understand the phrase "I took it for free" to mean? MR. WEINSTEIN: Object to form. A. I'm not certain what it means. It's not necessarily referring to cost. It could also be referring to a lack of extra work. BY MR. YOUNG: Q. Okay. You can set that aside document aside. MR. YOUNG: Okay. We are going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And what about Moya Chen, who is that? A. She is a research engineer. Q. Is she still employed at Meta? A. I believe she's returning to employment at Meta after a break. Q. Okay. Thank you. And Guillaume Lample, we've we've spoken about him before, correct? A. Have we spoken about Guillaume Lample? Q. Yeah. A. Yes. Q. Same individual? A. Yes. Q. Okay. So do you see Moya Chen's doc message at 7:05:55 PDT? She asks Guillaume: Do you have the list of datasets and the path location written

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1	A. Yes, I see that.	1	Now, Guillaume then shares a PNG
2	Q. Okay. And then Guillaume provides a	2	file, right? Do you see that at 7:16:34?
3	link, right?	3	A. Yes, I see that.
4	A. Yes.	4	MR. YOUNG: Now, I'm going to mark
5	Q. Now, do you know what list of	5	as Plaintiffs' 17.
6	datasets Moya is referring to?	6	(Whereupon, Kambadur Exhibit 17, PNG
7	A. I don't recall.	7	file shared in Exhibit 16 Bates Number Meta
8	Q. Okay. So this document was was	8	Kadrey 3000741456, was marked for
9	created on or about March 29, 2023.	9	identification.)
10	Do you think this might have	10	MR. YOUNG: Well, I'm sorry. Yep,
11	something to do with either Llama 1 or Llama 2?	11	Plaintiffs' 17, a document bearing Bates
12	A. I don't know we can assume the	12	label Meta Kadrey 00074156, as well as 17A,
13	document was created then.	13	which is metadata associated with that
14	Q. Okay.	14	document.
15	A. It looks like it was shared then.	15	BY MR. YOUNG:
16	Q. Okay. And then Guillaume, right,	16	Q. I want you to take a moment to
17	Guillaume seems shares a document and then	17	review that document. Let me know when you're
18	points Moya to where she can find the information	18	ready.
19	she requests, right?	19	(Whereupon, Kambadur Exhibit 17A,
20	A. He says: It's in new run V2, which	20	Metadata associated with Exhibit 17, was
21	could be referring to some part of that sheet.	21	marked for identification.)
22	(Reporter clarification.)	22	A. Yes, I've looked at the document.
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1	THE WITNESS: V2, as in Victor, yes,	1	BY MR. YOUNG:
2	version, most likely.	2	Q. Now, do you recognize this document?
3	BY MR. YOUNG:	3	A. I've seen, I think, parts of the
4	Q. And sorry.	4	sheet at least or versions of the sheet.
5	And then you respond, correct?	5	Q. Okay. I'm sorry. We're referring
6	A. Yes.	6	to the document marked as Plaintiffs' 17, right?
7	Q. You say: Thanks for sharing. Can	7	That's the one you were looking at?
8	we get the exact locations/versions of the data	8	A. Yes.
9	in the sheet, too.	9	Q. Okay. Is this the is this the
10	Right?	10	document that Guillaume shares with you in the
11	A. Yes.	11	message thread marked as Plaintiffs' 16?
12	Q. Okay. So you looked at that	12	A. I don't remember. It's been a year
13	document that Guillaume shared, right?	13	and a half.
14	A. Based on this context, presumably,	14	Q. All right. Can you look at what's
15	yes.	15	been marked Plaintiffs' 17A, which is the
16	Q. Okay. Now, do you remember what	16	metadata for Plaintiffs' 17. And can you please
17	list of datasets Moya was looking at?	17	look at the field labeled as "File name"?
18	A. No.	18	Do you see that?
19	Q. Okay. Now, you make another request	19	A. Yes.
20	of Guillaume, right? You said: We need for date	20	Q. And that file name is a PNG file?
21	eval/keeping up	21	A. Correct.
22	Well, strike that.	22	Q. And is that PNG file the same as the
	,	ı	S. The result is a sure office and file

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18

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- one that Guillaume shares at 7:16:34 PTD on
- 2 March 29, 2023?
- 3 A. It appears to be.
 - Q. Okay. Does that suggest to you that
- that file, what is Plaintiffs' 17, is the same 5
- file that Guillaume shares with you on March 29, 6
- 7 2023?
 - A. That would be my assumption.
- 9 Q. So returning to Plaintiffs' 17, do
- 10 you understand this to be a screenshot of a
- larger sheet or Excel sheet? 11
- 12 A. That's what it looks like.
- Q. Okay. And what do you understand 13 14 this section of the sheet to represent?
- A. It looks like a proposal for a data 15
- 16 mix for a version of a model.
- 17 Q. Based on the timing of the message thread, do you think this might be an early 18
- 19 version of Llama 2?
 - A. What do you mean by "early version"?
- Q. Do you think this document -- let me 21
- 22 rephrase that.

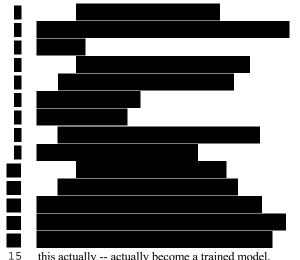
- could refer to datasets, yes.
- 2 Q. Okay. And we've seen some of these
- 3 names before, right?
 - A. Yes.
- 5 O. Would the fact that these datasets 6 were listed on multiple propositions mean that
 - the -- these are the same datasets being used? MR. WEINSTEIN: Object to form.
- 8 9 A. Sorry. Which -- the same across
- 10 what documents or what references?
- 11 BY MR. YOUNG:
 - Q. So we've seen, for example, Stack Exchange listed on multiple documents today,
- 14 right?
- 16 Q. Does that mean -- for multiple
- 17 experiments, correct?

A. Yes.

A. We've seen it on multiple documents.



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- this actually -- actually become a trained model.
- 16 BY MR. YOUNG:
- 17 Q. Okay. So under the column named -labelled "New Run V2," do you see that? 18
- 19 A. Yes.
- 20 Q. Underneath, are those a list of
- 21 datasets?

22

A. They look like a list of names that



- Q. Okay. And arXiv, we've seen that 18 one before, correct?
- 19 Yes, we've seen that name.
- 20 Q. Okay. And I don't think we asked,
- 21 but arXiv, do you -- what do you understand arXiv
- 22 to be?

63 (Pages 249 to 252)

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	Page 253		Page 255
1	A. In this case, a dataset containing	1	and, I am assuming that EN refers to English
2	academic articles.	2	language.
3	Q. Including potentially the Llama 1	3	Q. Okay. And there are a number of
4	and Llama 2 papers?	4	other C4 items, right?
5	A. I couldn't be sure about that. I	5	A. Correct.
6	don't know when this was pulled.	6	Q. Do you understand those to refer to
7	Q. But this represents a scraping on	7	datasets in certain languages?
8	the arXiv model at some point in time, correct?	8	A. That's my assumption based on these
9	A. Of the arXiv model?	9	two characteristics being common language codes.
10	Q. Excuse me. The arXiv website?	10	Q. So FR would be French?
11	MR. WEINSTEIN: Object to form.	11	A. That would make sense.
12	A. I don't know how the dataset was	12	Q. Would ES be Spanish?
13	constructed. I'm aware that we had a dataset	13	A. It matches the Spanish language
14	named arXiv which contained articles.	14	code, so that would make sense.
15	BY MR. YOUNG:	15	Q. Would DE be German?
16	Q. Which you understood to have at	16	A. It sounds right, but I'm not sure.
17	some point been hosted on the arXiv website?	17	Q. What is PT?
18	A. That was and is my assumption.	18	A. I am not 100 percent sure, but I
19	Q. I am sorry. Was?	19	could guess.
20	A. Was and is my assumption, yes.	20	Q. Portuguese?
21	Q. Got it. Thank you.	21	A. Yes, that would be my guess.
22	GitHub, did you understand GitHub to	22	Q. What about RU?
	Page 254		Page 256
1	Page 254 be a scraping of the code repositories on GitHub	1	Page 256 A. My guess would be Russian.
1 2		1 2	
	be a scraping of the code repositories on GitHub		A. My guess would be Russian.
2	be a scraping of the code repositories on GitHub at some point in time?	2	A. My guess would be Russian.Q. IT would be Italian?
2	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset	2	A. My guess would be Russian.Q. IT would be Italian?A. That's what I would think.
2 3 4	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created.	2 3 4	A. My guess would be Russian.Q. IT would be Italian?A. That's what I would think.Q. What is ZH?
2 3 4 5	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about	2 3 4 5	 A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure.
2 3 4 5 6	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset?	2 3 4 5 6	 A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a
2 3 4 5 6 7	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped	2 3 4 5 6 7	 A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for?
2 3 4 5 6 7 8	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub?	2 3 4 5 6 7 8	 A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right?
2 3 4 5 6 7 8 9	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form.	2 3 4 5 6 7 8 9	 A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one
2 3 4 5 6 7 8 9	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of	2 3 4 5 6 7 8 9	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be
2 3 4 5 6 7 8 9 10	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was	2 3 4 5 6 7 8 9 10	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name.
2 3 4 5 6 7 8 9 10 11	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of	2 3 4 5 6 7 8 9 10 11	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be
2 3 4 5 6 7 8 9 10 11 12 13	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was	2 3 4 5 6 7 8 9 10 11 12	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on
2 3 4 5 6 7 8 9 10 11 12 13 14	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that	2 3 4 5 6 7 8 9 10 11 12 13 14	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but again, I didn't directly examine our construct of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that dataset is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but again, I didn't directly examine our construct of this dataset.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that dataset is? A. I have a guess.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but again, I didn't directly examine our construct of this dataset. Q. So there are certain columns in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that dataset is? A. I have a guess. Q. That was the Common Crawl subset or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but again, I didn't directly examine our construct of this dataset. Q. So there are certain columns in orange.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	be a scraping of the code repositories on GitHub at some point in time? A. Again, I don't know how the dataset was created. Q. Did you have an assumption about what was contained in that dataset? A. I understand that it contains code data. Q. Publicly available code data scraped from public repositories online at GitHub? MR. WEINSTEIN: Object to form. A. I don't know our definition of scraping nor do I know how this data was collected. BY MR. YOUNG: Q. Well, C4 EN, do you know what that dataset is? A. I have a guess. Q. That was the Common Crawl subset or the Common Crawl dataset we were referring to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. My guess would be Russian. Q. IT would be Italian? A. That's what I would think. Q. What is ZH? A. I am not sure. Q. Would it be some it would be a dataset in whatever language Z stood for? A. Yes, that's my assumption. Q. And Wikipedia, we've seen that one as well, right? A. We have seen that name. Q. Do you understand that to be comprised of articles that were hosted on Wikipedia? A. That would be my assumption but again, I didn't directly examine our construct of this dataset. Q. So there are certain columns in orange. Do you see those?

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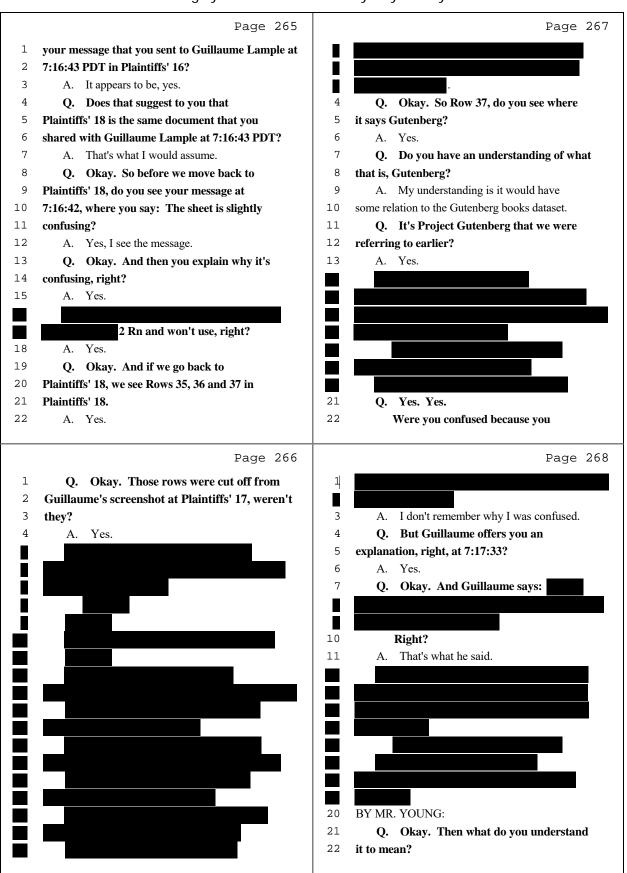
Page 257 Page 259 Q. Do you recall earlier today we had a 1 column before, correct? 2 discussion about memorization and desirable A. We have seen some similar labels, yes. memorization versus undesirable memorization? Do 3 4 Q. Can you describe what the column you recall that? 5 labelled "Proposition 1 Weights" is? 5 A. I recall that conversation. 6 6 Q. Would increasing desirable A. I don't actually know the 7 memorization be a reason you would increase the mathematically relation to the other columns, but 8 I assume it's some kind of weighting system. 8 epochs in certain datasets? 9 9 A. I am still not sure I understand Q. Can you describe for us what it 10 would be mean if there's a higher weight number 10 exactly what desirable memorization is. 11 Q. It's okay. So you said that one of 11 versus a lower weight number? 12 A. I would have to look. Yes, I would 12 the reasons that you may increase the number of have to compute the relationship between these 13 epochs is to increase the relative proportion of 13 14 columns. I am not actually sure. 14 that dataset in the model. 15 Do you recall that? 15 Q. Okay. Thank you. 16 Column of number of tokens, right, 16 A. Yes. 17 that's -- B stands for billions; is that right? 18 A. The B likely stands for billions, but it doesn't totally make sense to me. 19 20 O. It's all right. In the last column on the very left, Q. So looking at this proposal, there 21 21 22 you see number of epochs, right? are only four datasets who have epochs -- strike Page 258 Page 260 1 A. Yes. That's what it says, number 1 that. 2 assigned, epochs. 2 So what is -- if we take a look at 3 Q. Why are there more epochs on certain 3 the first row under epochs for Stack Exchange, it 4 datasets than others? 4 says 2.903 and then a bunch of numbers, right? 5 5 A. In this data mix proposal A. Yes. 6 6 particularly, I am not sure. Q. Can you explain to us what that 7 7 Q. Is that something that someone who means? 8 8 A. I didn't precisely implement this. experimenting can set the number of epochs? 9 9 I only have a high level understanding what of A. We can change the number of epochs 10 as a variable in the data mix, yes. 10 what it means. Would a possible reason be to increase memorization of that dataset? 18 19 MR. WEINSTEIN: Object to form. 20 A. What do you mean by "memorization"? 20 Q. When you -- maybe -- I think this is 21 21 Can we define that? my fault. Let me back up a bit. 22 BY MR. YOUNG: 22 When you said relative proportion of

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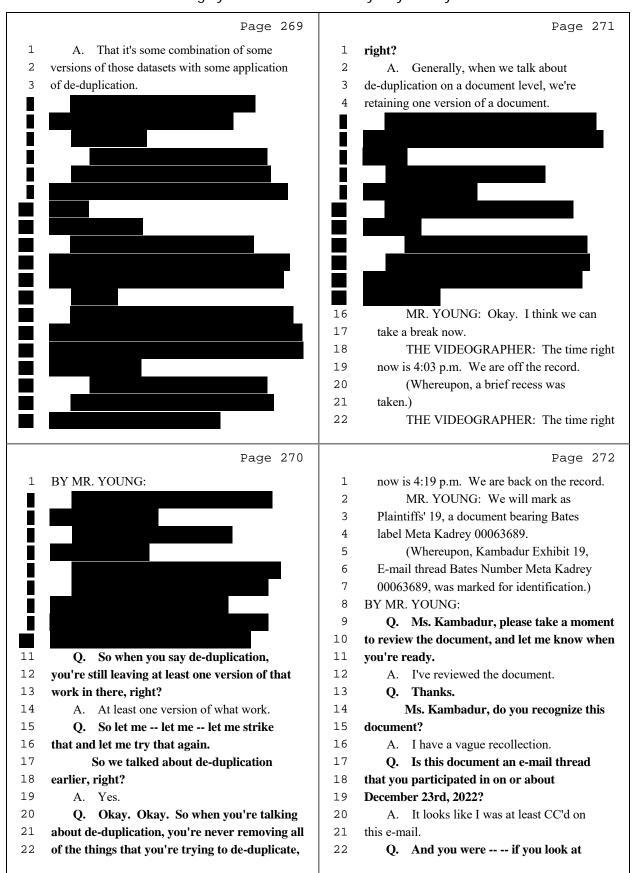
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Page 261 Page 263 7:16:43 PDT, right? 1 that dataset in the model, did you mean a higher relative proportion of that dataset vis-à-vis the 2 2 A. It looks like it, yes. 3 MR. YOUNG: So I am going to mark as 3 entirety of the data pre-training corpus? 4 4 Plaintiffs' 18 --A. I forget precisely what I said, but 5 (Whereupon, Kambadur Exhibit 18, PNG 5 increasing the epochs would have the effect of 6 file Bates Number Meta Kadrey 00074157, was 6 increasing the proportion of tokens seen from 7 7 marked for identification.) that dataset. 8 Q. So looking at this column of epochs 8 MR. YOUNG: Document bearing Bates 9 9 label Meta Kadrey 00074157 as 18A, metadata here, right, 10 associated with that document. 11 (Whereupon, Kambadur Exhibit 18A, 12 Metadata associated with Exhibit 18, was Correct. 13 marked for identification.) 13 14 MR. YOUNG: I think we are closing 15 on an hour. I will take one more break and 16 then I think we can close this out. 17 MS. STAMESHKIN: Great. A. Not necessarily, because some of 18 MR. WEINSTEIN: Sounds good. 18 19 19 BY MR. YOUNG: these datasets are smaller than others. 20 20 Q. So, Ms. Kambadur, sorry for that. O. So if a dataset is smaller, would 21 21 increasing the number of epochs sort of balance Let me when you're -- you've had a chance to review the document and you're ready to proceed. out the dataset vis-à-vis larger datasets in the Page 262 Page 264 1 corpus? 1 A. Yes, I've reviewed the document, at 2 A. Can you be more precise, what you 2 least scanned it. 3 3 mean balance out. Q. Okay. Do you recognize this 4 Q. I think I will move on. Can you go 4 document? 5 5 back to the document marked as Plaintiffs' 16, A. Yes, at least the document that it's 6 please? 6 a screenshot of. 7 7 A. Yes. Q. Okay. And is this document the 8 Q. So then you say -- you respond -- so 8 screenshot of the same document that Guillaume 9 do you see the message there, share the document 9 previously shared as -- that we were looking at 10 we were just examining was marked as 10 as Plaintiffs' 17? Plaintiffs' 17, right? Guillaume's 7:16:34 11 11 Yes, it looks like. 12 message? 12 Q. Okay. And is this the same document 13 A. Yes, I see the message. 13 that you shared in the post that we were 14 Q. You respond to Guillaume, right? 14 referencing in Plaintiffs' 16, the message 15 15 You say: The sheet is slightly confusing because thread? 16 for example -- e.g. -- for example, right, I see 16 A. I'm not sure. 17 Books3, Gutenberg listed both as B2 run and won't 17 Q. Okay. Will you please look at 18 18 what's been marked as Plaintiffs' 18 and if you nse. 19 Right? 19 can look at the row labeled "File name" and see 2.0 Do you see that? 20 that there's a PNG file, correct? 21 A. I see that message, the document. 21 A. Yes. 22 Q. Then you share a PNG, right, at 22 Q. Is that the same PNG file name as

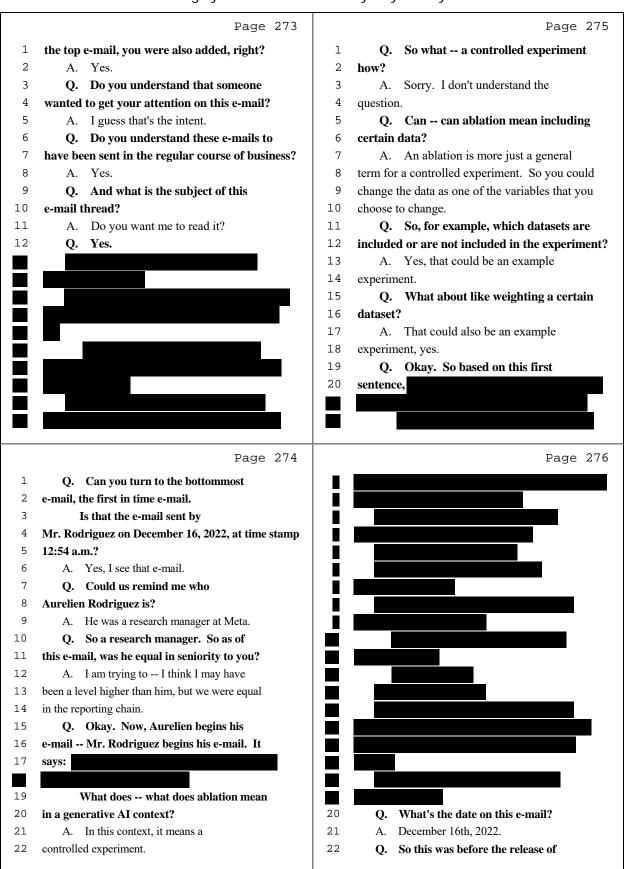
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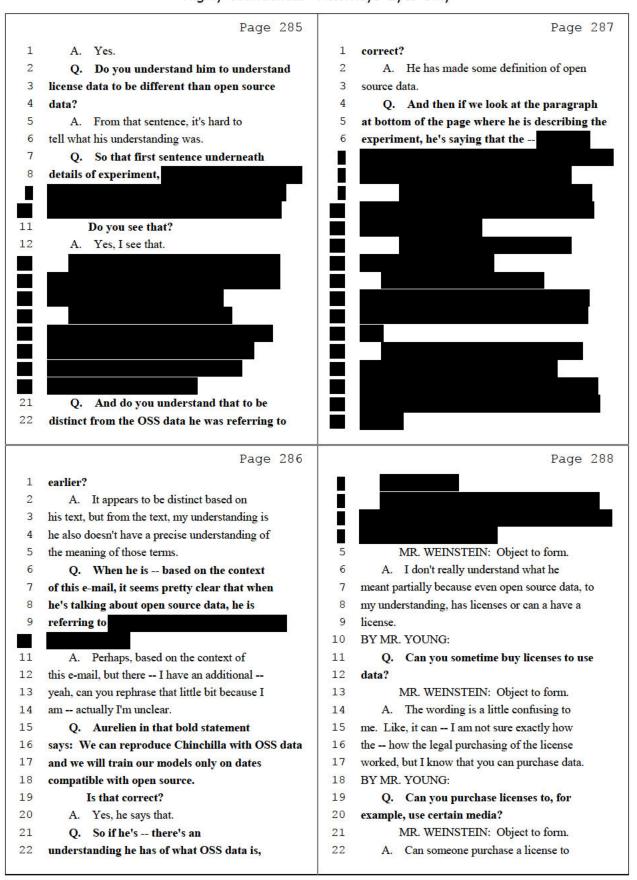
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	Page 277		Page 279
1		1	metrics that were similar to Chinchilla.
1 2	the Llama 2 models, correct? A. Correct.	2	BY MR. YOUNG:
3	Q. Now, do you see how Aurelien signs	3	Q. So when you what do you
4	off his e-mail.	4	understand the word "reproduce" to mean in this
5	It says: Cheers, the Genesis team.	5	context?
6	Right?	6	A. Based on a broader context I have
7	A. Yes.	7	from this e-mail, I understand it to mean using
8	Q. And do you recall earlier telling us	8	relatively similar model size scales to achieve
9	that "Genesis" was another name for the Llama	9	similar benchmark performance.
10	models?	10	Q. Do you know what OSS data means?
11	A. In this context, it's they're	11	A. We use OSS sometimes as a shorthand
12	also referring to it as a team, but it has we	12	for open source, so that would be my presumption,
13	had internal versions of the model named Genesis	13	but I don't know what precisely Aurelien means.
14	that were the initial basis for Llama models.	14	Q. Is open source data synonymous with
15	Q. So Aurelien is reporting on the	15	publicly available data?
16	results or his interpretation of the experiments	16	MR. WEINSTEIN: Object to form.
17	on behalf of Genesis team, right?	17	A. I don't know what Aurelien means in
18	A. That's what it appears in this	18	his reference.
19	e-mail.	19	BY MR. YOUNG:
20	Q. Do you know if the Genesis team	20	Q. Do you have an understanding of what
21	eventually became the Llama team?	21	open source data is?
22	A. Not precisely. Well, some members	22	A. A high level understanding.
	Page 278		Page 280
1	of the Genesis team joined or what I think he	1	Q. What is your understanding of what
2	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure	2	Q. What is your understanding of what open source data is?
2	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But	2	Q. What is your understanding of what open source data is? A. Data which has been permissibly
2 3 4	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But some members of the group I think he is referring	2 3 4	Q. What is your understanding of what open source data is? A. Data which has been permissibly licensed.
2 3 4 5	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But some members of the group I think he is referring to joined a larger group which then worked on	2 3 4 5	 Q. What is your understanding of what open source data is? A. Data which has been permissibly licensed. Q. Can you explain what "permissibly
2 3 4 5 6	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But some members of the group I think he is referring to joined a larger group which then worked on Llama.	2 3 4 5 6	Q. What is your understanding of what open source data is? A. Data which has been permissibly licensed. Q. Can you explain what "permissibly licensed" means?
2 3 4 5 6 7	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But some members of the group I think he is referring to joined a larger group which then worked on Llama. Q. So do you see the sentence in bold?	2 3 4 5 6 7	Q. What is your understanding of what open source data is? A. Data which has been permissibly licensed. Q. Can you explain what "permissibly licensed" means? A. I don't have a precise definition,
2 3 4 5 6 7 8	of the Genesis team joined or what I think he is referring as the Genesis team. I am not sure this was, like, an official organization. But some members of the group I think he is referring to joined a larger group which then worked on Llama. Q. So do you see the sentence in bold? He says: We are confident that we can reproduce	2 3 4 5 6 7 8	Q. What is your understanding of what open source data is? A. Data which has been permissibly licensed. Q. Can you explain what "permissibly licensed" means? A. I don't have a precise definition, but which has a license attached that gives
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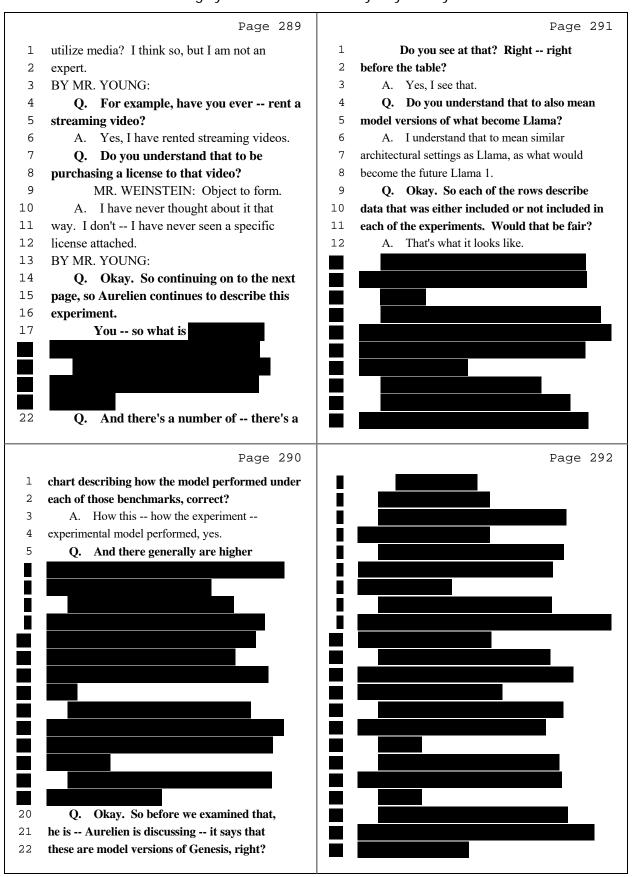
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1	Q. Do you have a recollection of what	1	Q. Is he a full-time employee of Meta?
2	that acronym stood for?	2	A. I am not sure if he is full-time or
3	A. I don't recall for sure.	3	not. He is co-listed as a professor.
4	Q. Do you recall what some of the	4	Q. So it goes on: Your experience with
5	letters stood for?	5	open source at OPT will be greatly appreciated
6	A. I believe O stands for open. That's	6	here.
7	the only one I'm remembering off the top of my	7	What is OPT?
8	head, and I am not even 100 percent sure on that	8	A. OPT is another model that we trained
9	one.	9	on Meta.
10	Q. Okay. Do you see how further on in	10	Q. What type of model was that?
11	that paragraph Aurelien talks about RAI?	11	A. Also a language large model.
12	A. Yes.	12	Q. Was that model ever released to the
13	Q. Is RAI Responsible AI?	13	public?
14	A. I believe that he is using it as a	14	A. Yes.
15	synonym as a abbreviation for Responsible AI,	15	
16	•	16	-
17	yes.		
	Q. Is that a division at Meta?	17	Q. Thank you for that. I realized that
18	A. At some point, we had an	18	was a silly question after I asked it.
19	organization called RAI. I am not sure if that's	19	So if you go down to after do
20	what Meta or if that is what is Aurelien is	20	you see the line after the Genesis team, the
21	referring to here.	21	sign-off?
22	Q. Do you know if that organization	22	A. Yes.
	Page 282		Page 284
1	still exists?	1	Q. It says: Details of the experiment.
2	A. There are still members of that	2	Do you see that section?
3	organization, but there have been an	3	A. I see that section.
4	organizational changes since then.	4	Q. Do you see the reference to the XL
5	Q. Do you know who was in the RAI	5	Former's team?
6	organization as of this e-mail?	6	A. Yes.
7	A. No.	7	Q. Do you know what that is?
8	Q. Do you know who is in the RAI	8	A. I know that XL Former is the name of
9	organization now?	9	a library. I am not sure who he is referring to
-	V- British 1011 110 11 1		
10	A The the there is not to my		-
10 11	A. The the there is not to my	10	when he says XL Former's team.
11	knowledge an organization called RAI.	10	when he says XL Former's team. Q. Now, before we go into this, can we
11 12	knowledge an organization called RAI. Q. Is there an organization so what	10 11 12	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the
11 12 13	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI	10 11 12 13	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off.
11 12 13 14	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI organization to have been?	10 11 12 13 14	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off. So the first sentence of that final
11 12 13 14 15	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI organization to have been? A. I don't have that broad of context	10 11 12 13 14 15	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off. So the first sentence of that final paragraph, do you see that sentence begins: Once
11 12 13 14 15	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI organization to have been? A. I don't have that broad of context to understand their complete role at Meta.	10 11 12 13 14 15 16	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off. So the first sentence of that final paragraph, do you see that sentence begins: Once our final training is done?
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11 12 13 14 15 16 17 18	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI organization to have been? A. I don't have that broad of context to understand their complete role at Meta. Q. So then Aurelien continues. He makes at Luke Zettlemoyer. Do you know who	10 11 12 13 14 15 16	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off. So the first sentence of that final paragraph, do you see that sentence begins: Once our final training is done?
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11 12 13 14 15 16 17 18 19 20	knowledge an organization called RAI. Q. Is there an organization so what do you understand the role of the Responsible AI organization to have been? A. I don't have that broad of context to understand their complete role at Meta. Q. So then Aurelien continues. He makes at Luke Zettlemoyer. Do you know who Luke Zettlemoyer is? A. Yes.	10 11 12 13 14 15 16 17	when he says XL Former's team. Q. Now, before we go into this, can we go back to the final paragraph right before the cheers, Aurelien signed off. So the first sentence of that final paragraph, do you see that sentence begins: Once our final training is done? A. Yes.

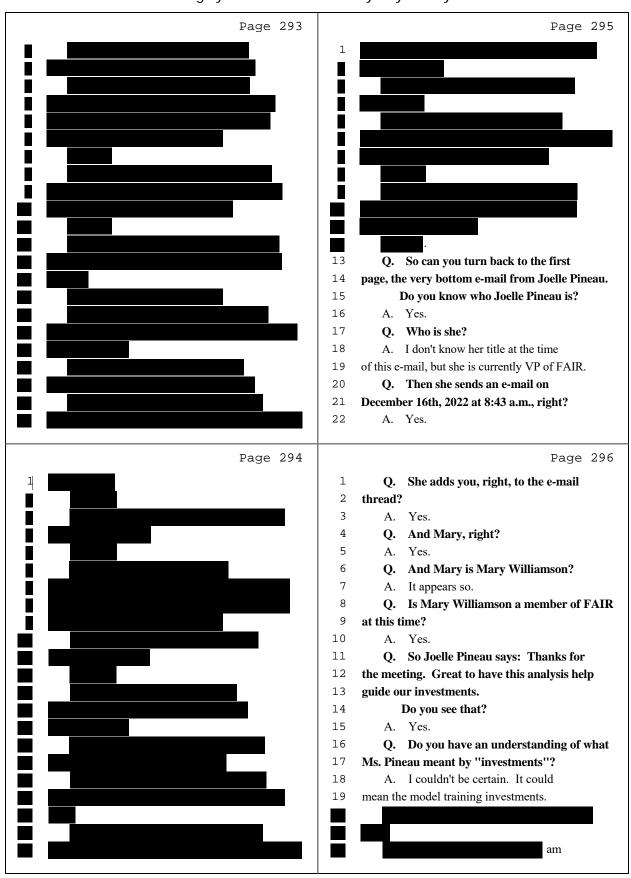
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1	not certain.		
2	Q. And for pre-training models?	2	Right? Do you see that?
3	A. It's hard to speculate from the	3	A. Yes.
4	limited context here.		
5	Q. Okay.	5	Right?
6	A. It could also mean whether we should	6	A. Yes.
7	open source this model. There's a lot of		
8	interpretations here.		
9	Q. You can set that document aside.	9	Q. Now, do you see Nisha's message at
10	MR. YOUNG: So I am going to mark as	10	13:41:11 PDT a couple of messages down?
11	Plaintiffs' 19 20. Apologize a	11	A. Yes.
12	document bearing Bates label Meta Kadrey	12	Q. She says: Questions they posed
13	0054898.	13	include
14	(Whereupon, Kambadur Exhibit 20,	14	Sorry, let's back up.
15	Workplace Chat Bates Number Meta Kadrey	15	Her message from 13:44:01, right?
16	0054898, was marked for identification.)	16	A. Uh-huh.
17	BY MR. YOUNG:	17	Q. So Nisha is saying that she received
18	Q. Why don't you take a moment to	18	an inquiry The Atlantic.
19	review the document and let me know when you are	19	Do you see that?
20	ready.	20	A. Yes, I see that.
21	A. I reviewed it.	21	Q. Do you understand The Atlantic to be
22	Q. Great.	22	the magazine The Atlantic?
I	Page 298		Page 300
1	Does Plaintiffs' Plaintiffs' 20	1	A. I don't know what kind of
2	appear to be a Workplace Chat between you and	2	publication it is.
3	Nisha Dayal taking place on or around	3	Q. Journalists?
4	August 18th, 2023?	4	A. I knew it was some kind of article.
5	A. Yes.	5	Q. And they asked about the use of
6	Q. Were these chats generated in the	6	Books3 in Llama, right?
7	regular course of business?	7	A. According to Nisha, yes.
8	A. Yes.	8	Q. So Nisha is asking you to help with
9	Q. Who is Ms. Dayal? Is that how you	9	responding The Atlantic, it seems like, right?
10	pronounce her name?	10	A. I think she's asking me for more
11	A. I am not sure.	11	technical details so that she can prepare a
12	Q. I am going to call her Nisha.	12	response.
13	Do you know who Nisha is?	13	Q. So going back to her message bearing
14	A. Yes.	14	time stamp 13:44:11 PDT, now, she relays to you a
15	Q. What is Nisha's role at Meta?	15	number of questions posed by The Atlantic,
16	A. I don't know her specific title, but	16	correct?
17	she is on our communications team.	17	A. Yes.
18	Q. And Nisha is still with Meta; is	18	Q. So the very first question is: The
19	that correct?	19	research paper about the construction of Llama
	A. I am not sure.	20	clearly states that Books3 is among the corpora
20			
20		21	of the program's training data. Right?

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1	A. That sentence is there. It's not a	1	A. Yes, I see that.
2	question.	2	Q. Who is Ahuva?
3	Q. Right. Sorry.	3	A. Ahuva is one of our legal counsel at
4	Do you know which research paper she	4	Meta.
5	is referring to?	5	Q. Okay. She describes an escalation.
6	A. I don't know think I don't know	6	What is an escalation?
7	who is referring to which Llama in this sentence.	7	A. I don't know precisely what she is
8	It looks like a quote from Nisha.	8	referring to, but it may mean informing her
9	Q. Okay. Do you recall if the Llama 1	9	manager.
10	paper stated the Books3 was amongst its	10	Q. And Nisha also says she is trying to
11	pre-training corpora?	11	understand, quote/unquote, the ground truth,
12	A. I would have to double-check our	12	right?
13	papers or the paper.	13	A. Yes, she said that.
14	Q. Do you still have Plaintiffs' 1 in	14	Q. Now, you had also used that phrase
15	front of you, the Llama 1 paper?	15	"ground truth" earlier today.
16	So on page do you see the page	16	Do you recall?
17	bearing Bates label Meta Kadrey 000079?	17	A. Yes, I recall.
18	A. Yes.	18	Q. Can you remind us what ground truth
19	Q. Do you see the Section 2.1	19	means?
20	pre-training data?	20	A. I think these are slightly different
21	A. Yes.	21	contexts. So do you want a broader definition,
22	Q. Do you see a section titled	22	or do you want me to go back to the context we
	Page 302		Page 304
1	"Gutenberg and Books3"?	1	were discussing earlier or discuss this context?
1 2	"Gutenberg and Books3"? A. Yes.	1 2	were discussing earlier or discuss this context? Q. Let me try again. What do you
	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the		were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground
2	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the Llama 1 paper is saying that Books3 comprises the	2	were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground truth"?
2 3 4 5	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the Llama 1 paper is saying that Books3 comprises the pre-training data for Llama 1?	2 3 4 5	were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground truth"? A. I think she wants to it's hard to
2 3 4 5 6	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the Llama 1 paper is saying that Books3 comprises the pre-training data for Llama 1? A. The Books3 section of the Pile, it's	2 3 4 5 6	were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground truth"? A. I think she wants to it's hard to precisely know what she means, but my
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the Llama 1 paper is saying that Books3 comprises the pre-training data for Llama 1? A. The Books3 section of the Pile, it's saying is in the pre-training data. Q. Do you think that's the that's the research paper that Nisha referring to in Plaintiffs' 20? A. Again, I think Nisha is quoting a journalist here. So I don't know if Nisha herself is referring to anything. Q. Okay. But do you think that's that's the section of the research paper that the journalist was referring to? A. It's hard to know for sure, but that would be a reasonable assumption. Q. Okay. Now, Nisha also asks later at 13:47 PDT to have someone named Ahuva, quote,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground truth"? A. I think she wants to it's hard to precisely know what she means, but my understanding from reading this now is that she is trying to gather additional facts from our research team. Q. In order to relay to the journalist of The Atlantic? A. I am not sure what she ultimately relayed or how she would choose what to relay. Q. Towards the bottom of the page and it goes on to the next page, Nisha shares a GIF file. Do you see that? A. Yes. MR. YOUNG: Okay. I am going to mark Plaintiffs' 21
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	"Gutenberg and Books3"? A. Yes. Q. Does that suggest to you that the Llama 1 paper is saying that Books3 comprises the pre-training data for Llama 1? A. The Books3 section of the Pile, it's saying is in the pre-training data. Q. Do you think that's the that's the research paper that Nisha referring to in Plaintiffs' 20? A. Again, I think Nisha is quoting a journalist here. So I don't know if Nisha herself is referring to anything. Q. Okay. But do you think that's that's the section of the research paper that the journalist was referring to? A. It's hard to know for sure, but that would be a reasonable assumption. Q. Okay. Now, Nisha also asks later at	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	were discussing earlier or discuss this context? Q. Let me try again. What do you understand Nisha to mean when she says "ground truth"? A. I think she wants to it's hard to precisely know what she means, but my understanding from reading this now is that she is trying to gather additional facts from our research team. Q. In order to relay to the journalist of The Atlantic? A. I am not sure what she ultimately relayed or how she would choose what to relay. Q. Towards the bottom of the page and it goes on to the next page, Nisha shares a GIF file. Do you see that? A. Yes. MR. YOUNG: Okay. I am going to

Richard Kadrey, et al. v. Meta Platforms, Inc. Highly Confidential - Attorneys' Eyes Only

	Page 305			Page 307
1	was marked for identification.)	1	A.	That's what it looks like.
2	MR. YOUNG: what was produced	2	Q.	The text says: And that is how you
3	natively as Meta file 000024898. This is, I	3	pivot.	
4	believe, a screenshot. Oh, I am sorry. It's	4	-	Right?
5	Meta Kadrey 00054019. That's Plaintiffs' 21.	5		Yes, pivot, yes.
6	I misspoke. And 21A is metadata associated	6	Q.	How you pivot, right.
7	with that document, Plaintiffs' 21.	7	_	Do you have an understanding of what
8	(Whereupon, Kambadur Exhibit 21A,	8		g" means in this context?
9	Metadata associated with Exhibit 21, was	9	Α.	In the context of the GIF or the
10	marked for identification.)	10	context o	of the meme or the context from Nisha?
11	BY MR. YOUNG:	11	Q.	The GIF or meme.
12	Q. Do you recognize this document?	12	A.	I don't know for sure. I don't
13	A. I don't recall it.	13	think I ha	ave seen this skit.
14	Q. Okay. Take a look at 19A.	14	Q.	Do you understand you described
15	A. 19A?	15	this as a	meme, right?
16	Q. Yep, marked as 19A, it should be the	16		Yes.
17	metadata associated with that file.	17	Q.	So do you understand this meme to be
18	A. Are we talking about 21A?	18		un at Hillary Clinton who was at that
19	MR. WEINSTEIN: 21A.	19	time dod	ging or avoiding questions in debates?
20	BY MR. YOUNG:	20		I don't know. I don't watch many
21	Q. I am sorry. 21A. It's been a long	21	president	tial debates.
22	day. I apologize.	22	Q.	Do you understand the meaning of
	Page 306			Page 308
1	Page 306 And you see the file name of 21A,	1	the contex	Page 308
1 2		1 2		
	And you see the file name of 21A,		A. I	xt of this meme?
2	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a	2	A. I	kt of this meme? have a guess that it may be on Night Live because it's Kate McKinnon
2	And you see the file name of 21A, right? A. Yes.	2	A. I Saturday I and it says	kt of this meme? have a guess that it may be on Night Live because it's Kate McKinnon
2 3 4	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a	2 3 4	A. I Saturday I and it says Q. I	have a guess that it may be on Night Live because it's Kate McKinnon s NBC.
2 3 4 5	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right?	2 3 4 5	A. I Saturday I and it says Q. I means to	have a guess that it may be on Night Live because it's Kate McKinnon S NBC. Do you understand that pivoting
2 3 4 5 6	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it.	2 3 4 5 6	A. I Saturday I and it says Q. I means to A. I how I wou	have a guess that it may be on Night Live because it's Kate McKinnon s NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot.
2 3 4 5 6 7 8 9	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it. Q. And if you go back to Plaintiffs' 21, is the GIF file name identical to the GIF that Nisha shared with you?	2 3 4 5 6 7 8 9	A. I Saturday I and it says Q. I means to A. I how I woo	have a guess that it may be on Night Live because it's Kate McKinnon s NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot. Did you find this meme amusing when
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it. Q. And if you go back to Plaintiffs' 21, is the GIF file name identical to the GIF that Nisha shared with you? A. It appears to be. Q. Does that suggest to you that the GIF marked as Plaintiffs' 21 is the same as the one Nisha sent you in Plaintiffs' Plaintiffs' 20? A. That would be my assumption. Q. Do you recognize this GIF? A. I don't recall it. I think I have seen that GIF in general, but I don't recall it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I Saturday Nand it says Q. I means to A. I how I wou Q. I Nisha sen A. I Q. I having an to commumere? A. I unrelated the next set	have a guess that it may be on Night Live because it's Kate McKinnon is NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot. Did you find this meme amusing when t it to you? don't recall. Did you recall having recall a understanding of what Nisha was trying micate to you when she sent you this don't recall, but it seems to some of other conversation based on entence.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it. Q. And if you go back to Plaintiffs' 21, is the GIF file name identical to the GIF that Nisha shared with you? A. It appears to be. Q. Does that suggest to you that the GIF marked as Plaintiffs' 21 is the same as the one Nisha sent you in Plaintiffs' Plaintiffs' 20? A. That would be my assumption. Q. Do you recognize this GIF? A. I don't recall it. I think I have seen that GIF in general, but I don't recall it in this conversation context.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I Saturday I and it says Q. I means to A. I how I wou Q. I Nisha sen A. I Q. I having an to communeme? A. I unrelated ther next so	have a guess that it may be on Night Live because it's Kate McKinnon S NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot. Did you find this meme amusing when t it to you? don't recall. Did you recall having recall a understanding of what Nisha was trying unicate to you when she sent you this don't recall, but it seems to some of other conversation based on entence. Now, if we go a few messages up, do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it. Q. And if you go back to Plaintiffs' 21, is the GIF file name identical to the GIF that Nisha shared with you? A. It appears to be. Q. Does that suggest to you that the GIF marked as Plaintiffs' 21 is the same as the one Nisha sent you in Plaintiffs' Plaintiffs' 20? A. That would be my assumption. Q. Do you recognize this GIF? A. I don't recall it. I think I have seen that GIF in general, but I don't recall it in this conversation context. Q. Do you understand this to be an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I Saturday I and it says Q. I means to A. I how I wot Q. I Nisha sen A. I Q. I having an to communeme? A. I unrelated ther next so Q. I you see yo	have a guess that it may be on Night Live because it's Kate McKinnon S NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot. Did you find this meme amusing when t it to you? don't recall. Did you recall having recall a understanding of what Nisha was trying micate to you when she sent you this don't recall, but it seems to some of other conversation based on entence. Now, if we go a few messages up, do our message at 13:51:10 PDT?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And you see the file name of 21A, right? A. Yes. Q. Okay. It's a GIF the name of a GIF file, right? A. It looks like it. Q. And if you go back to Plaintiffs' 21, is the GIF file name identical to the GIF that Nisha shared with you? A. It appears to be. Q. Does that suggest to you that the GIF marked as Plaintiffs' 21 is the same as the one Nisha sent you in Plaintiffs' Plaintiffs' 20? A. That would be my assumption. Q. Do you recognize this GIF? A. I don't recall it. I think I have seen that GIF in general, but I don't recall it in this conversation context. Q. Do you understand this to be an image of Kate McKinnon impersonating Hillary	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I Saturday Mand it says Q. I means to A. I how I wou Q. I Nisha sen A. I Q. I having an to commumeme? A. I unrelated ther next so Q. Myou see you	have a guess that it may be on Night Live because it's Kate McKinnon is NBC. Do you understand that pivoting avoid or dodge questions? don't know I don't think that's ald define pivot. Did you find this meme amusing when t it to you? don't recall. Did you recall having recall a understanding of what Nisha was trying micate to you when she sent you this don't recall, but it seems to some of other conversation based on entence. Now, if we go a few messages up, do our message at 13:51:10 PDT? Yes.
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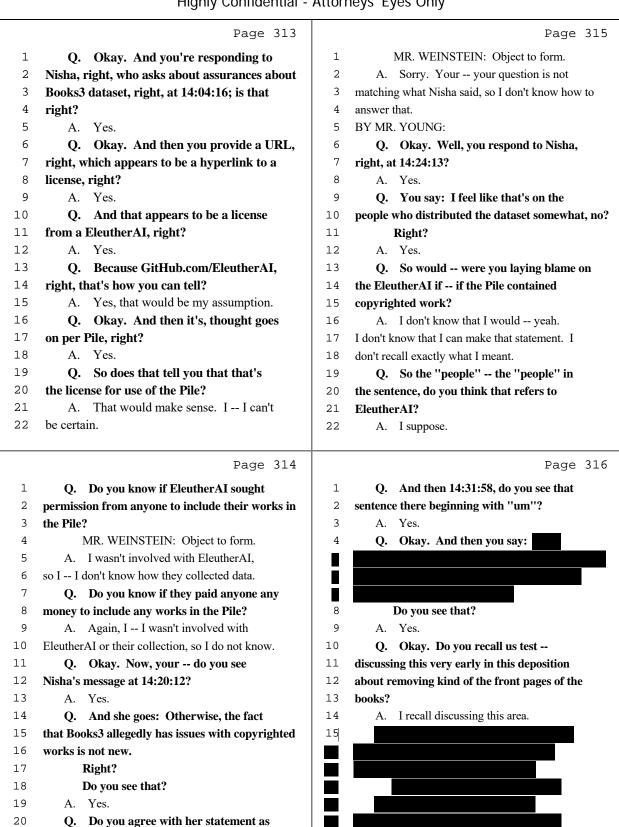
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	Tilgrily Cornidential -		
	Page 309		Page 311
1	yesterday with a bunch of people from other	1	define it as that.
2	companies, and any time I mentioned I work on	2	Q. Now, moving on to your statement as
3	Llama 2, they kept asking me about datasets,	3	of 14:08:11.
4	smiley face. I was just like see the paper/no	4	Do you see that, that statement
5	comment, LOL.	5	there "no worries"?
6	Right?	6	A. Yes.
7	A. Yes.	7	Q. You say: No worries.
8	Q. Do you think that might be what	8	You mean for distributing Llama 1,
9	Nisha was referring to?	9	right?
10	A. It's really hard to say because	10	A. Yes.
	•		
11	there are additional redacted comments that I	11	Q. Okay. And this was in response to
12	don't recall.	12	Nisha's questions two questions above, "Do we
13	Q. So going back to that second page of	13	have that same license on Llama 1," right?
14	that document, now Nisha starts talking	14	A. Yes.
15	returns to the subject of Books3, right?	15	Q. Okay. What did you mean by
16	A. Yes.	16	"distributing Llama 1"?
17	Q. She asks if do you know if any of	17	A. I think I was trying to distinguish
18	if assurances from them that their catalog	18	what license she was referring to and whether
19	didn't contain any pirated works.	19	that was the license attached to Llama itself.
20	Right?	20	Q. By "distributing Llama 1," did you
21	A. That's what she typed.	21	mean mean make available for use?
22	Q. Do you have an understanding of what	22	A. I suppose so.
	Page 310		Page 312
1	Page 310 pirated work means?	1	Page 312 Q. And then you go you respond "no,"
1 2		1 2	
	pirated work means?		Q. And then you go you respond "no,"
2	pirated work means? A. I don't know for sure what it means	2	Q. And then you go you respond ''no,'' right, because Llama 1 was a research-only
2	pirated work means? A. I don't know for sure what it means in this context.	2	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is
2 3 4	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken	2 3 4	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right?
2 3 4 5	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission?	2 3 4 5	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that?
2 3 4 5 6	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form.	2 3 4 5 6	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes.
2 3 4 5 6 7	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that	2 3 4 5 6 7	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you
2 3 4 5 6 7 8	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that conclusion from this information. BY MR. YOUNG:	2 3 4 5 6 7 8	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you Llama 1 and Llama 2 were being distributed under different licenses, right?
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2 3 4 5 6 7 8 9 10 11	pirated work means? A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that conclusion from this information. BY MR. YOUNG: Q. Do you have an understanding of what the terms "pirated works" mean? A. I don't know what this particular	2 3 4 5 6 7 8 9 10	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you Llama 1 and Llama 2 were being distributed under different licenses, right? A. That's what I'm saying, yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that conclusion from this information. BY MR. YOUNG: Q. Do you have an understanding of what the terms "pirated works" mean? A. I don't know what this particular journalist that Nisha is quoting meant by "pirated works," no. Q. Did you have an understanding you yourself have an understanding what "pirated works" mean? A. It's a very colloquial term. So I'm not exactly sure what the precise definition is.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you Llama 1 and Llama 2 were being distributed under different licenses, right? A. That's what I'm saying, yes. Q. And going back further, right, you're the start of this conversation was a discussion about distribution of the Books3 dataset, right? Do you see Nisha Nisha's message of 14:04:16? A. Sorry. Could you repeat that question? Q. Yeah. So let's actually go to your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that conclusion from this information. BY MR. YOUNG: Q. Do you have an understanding of what the terms "pirated works" mean? A. I don't know what this particular journalist that Nisha is quoting meant by "pirated works," no. Q. Did you have an understanding you yourself have an understanding what "pirated works" mean? A. It's a very colloquial term. So I'm not exactly sure what the precise definition is. Q. Would it mean, for example, perhaps	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you Llama 1 and Llama 2 were being distributed under different licenses, right? A. That's what I'm saying, yes. Q. And going back further, right, you're the start of this conversation was a discussion about distribution of the Books3 dataset, right? Do you see Nisha Nisha's message of 14:04:16? A. Sorry. Could you repeat that question? Q. Yeah. So let's actually go to your message of 14:05:13.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't know for sure what it means in this context. Q. Does it mean copyrighted works taken without permission? MR. WEINSTEIN: Object to form. A. I don't know how you can draw that conclusion from this information. BY MR. YOUNG: Q. Do you have an understanding of what the terms "pirated works" mean? A. I don't know what this particular journalist that Nisha is quoting meant by "pirated works," no. Q. Did you have an understanding you yourself have an understanding what "pirated works" mean? A. It's a very colloquial term. So I'm not exactly sure what the precise definition is.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And then you go you respond "no," right, because Llama 1 was a research-only model model, right? And Llama 2 is commercial, right? Do you see that? A. Yes. Q. So what you're saying is that you Llama 1 and Llama 2 were being distributed under different licenses, right? A. That's what I'm saying, yes. Q. And going back further, right, you're the start of this conversation was a discussion about distribution of the Books3 dataset, right? Do you see Nisha Nisha's message of 14:04:16? A. Sorry. Could you repeat that question? Q. Yeah. So let's actually go to your

21

22

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79 (Pages 313 to 316)

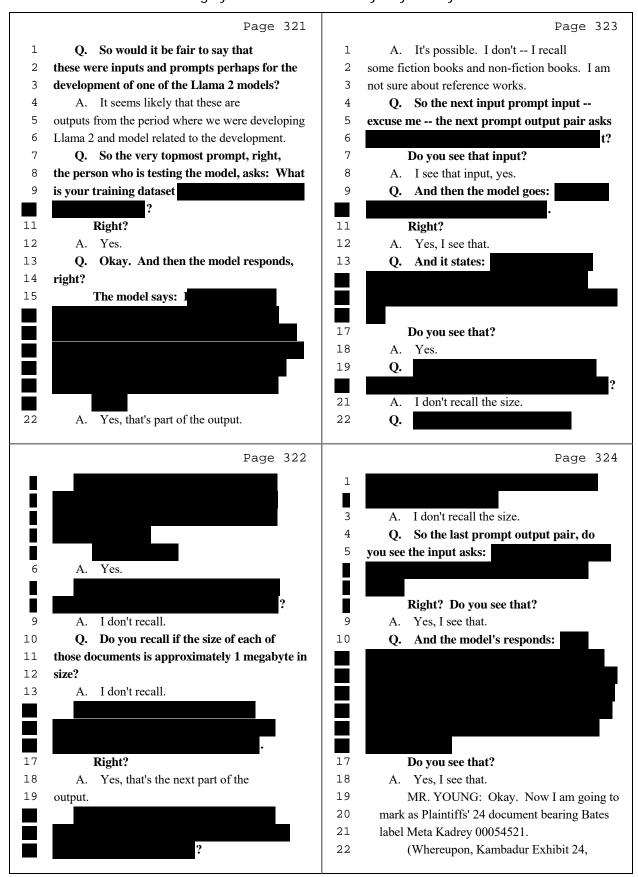
of August 18, 2023, that Books3 had issues with

copyright as of that point?

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	Page 317		Page 319
1		1 1113	
1	MR. YOUNG: Okay. I'm done with		Meta Kadrey 00054520.
2	this document and I've got one more line of		Whereupon, Kamadur Exhibit 23,
3	questioning. So about maybe about an half		Number Meta Kadrey 00054520, was marked
4	hour left. So I'll leave it to you guys.		entification.) MR. YOUNG: And then, Madam Court
5	Do you guys want to take a short		
6	break or do you guys want to keep trekking?	•	ter, will you please mark as 23A, the at a associated with this document.
7	THE WITNESS: I'm either way.		
8	MR. WEINSTEIN: We can proceed, I		Whereupon, Kamadur Exhibit 23A,
9	think.		ata associated with Exhibit 23, was
10	MR. YOUNG: Okay. Great.		d for identification.)
11	And then we are going to mark as		YOUNG:
12	Plaintiffs' 22, a document bearing Bates		Let me know when you've reviewed the
13	label Meta Kadrey 00054518.		nt, Ms. Kambadur.
14	(Whereupon, Plaintiffs' Exhibit 22,		Yes, I have reviewed the document.
15	Bates Number Meta Kadrey 00054518, was marked		Do you recognize this document?
16	for identification.)	16 A.	
17	BY MR. YOUNG:	_	What is it?
18	Q. So take a couple moments to review		It appears to be a screenshot of
19	the document and let me know when you're ready.		ser prompts and model outputs from one of
20	A. I reviewed the document.		tentially from one of our internal
21	Q. All right. And is Plaintiffs' 22 a	-	nent models, but I'm not sure which model.
22	Workplace Chat between you and yourself you	22 Q.	And was this screenshot one the PNGs
	Page 318		Page 320
1	and others on or around June 2, 2023?	1 that you	shared in your message of 11:44:20 in
1 2	and others on or around June 2, 2023? A. That's what this looks like, yes.	that youPlaintiff	_
		2 Plaintiff	_
2	A. That's what this looks like, yes.	2 Plaintiff	fs' 22?
2	A. That's what this looks like, yes.Q. And are these message sent in the	2 Plaintiff3 A.	fs' 22?
2 3 4	A. That's what this looks like, yes.Q. And are these message sent in the ordinary course of business?	 Plaintiff A. to be. Q. 	From the metadata file, it appears
2 3 4 5	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. 	 Plaintiff A. to be. Q. the meta 	From the metadata file, it appears All right. And you're referencing
2 3 4 5 6	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from 	 Plaintiff A. to be. Q. the meta A. 	Fs' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right?
2 3 4 5 6 7	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? 	 Plaintiff A. to be. Q. the meta A. Q. 	Fs' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes.
2 3 4 5 6 7 8	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. 	 Plaintiff A. to be. Q. the meta A. Q. shared, 	Fs' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you
2 3 4 5 6 7 8	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance 	 Plaintiff A. to be. Q. the meta A. Q. shared, 	Fs' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three?
2 3 4 5 6 7 8 9	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even 	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q.	Fs' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes.
2 3 4 5 6 7 8 9 10	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. 	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re	Fis' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you
2 3 4 5 6 7 8 9 10 11	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? 	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re	Fis' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,
2 3 4 5 6 7 8 9 10 11 12	 A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. 	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct?	Fis' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,
2 3 4 5 6 7 8 9 10 11 12 13 14	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A.	From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix?	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because	Fis' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,? It's likely from a variant of Llama
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix? A. Not specifically.	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because 17 Q.	Fis' 22? From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,? It's likely from a variant of Llama that was our focus at the time.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix? A. Not specifically. Q. Okay. And then you share three	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because 17 Q. 18 time the	From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model,? It's likely from a variant of Llama that was our focus at the time. And from Plaintiffs' 22, from the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix? A. Not specifically. Q. Okay. And then you share three files at 11:44:20.	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because 17 Q. 18 time the	From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model, do recognize this as from a Llama that was our focus at the time. And from Plaintiffs' 22, from the emessage was was created, is it likely
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix? A. Not specifically. Q. Okay. And then you share three files at 11:44:20. Do you see that?	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because 17 Q. 18 time the 19 that this 20 series of	From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model, do recognize this as from a Llama that was our focus at the time. And from Plaintiffs' 22, from the emessage was was created, is it likely is was around the time that the Llama 2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. That's what this looks like, yes. Q. And are these message sent in the ordinary course of business? A. Yes. Q. And the very first message was from you, right? A. In this exhibit, yes. Q. And it say you say: Any chance we can fix this behavior? Looks pretty bad, even if it's hallucinating. Right? A. Yes. Q. Do you recall what behavior you were trying to fix? A. Not specifically. Q. Okay. And then you share three files at 11:44:20. Do you see that? A. Yes.	2 Plaintiff 3 A. 4 to be. 5 Q. 6 the meta 7 A. 8 Q. 9 shared, 10 A. 11 Q. 12 don't re 13 but you 14 correct? 15 A. 16 because 17 Q. 18 time the 19 that this 20 series of	From the metadata file, it appears All right. And you're referencing adata file, Plaintiffs' 23A, right? Yes. Okay. And it's the first file you right, the first of three? Yes. Okay. So Plaintiffs' 23. Now, you cognize from any specific Llama model, do recognize this as from a Llama model, do recognize this as from a Llama model,? It's likely from a variant of Llama that was our focus at the time. And from Plaintiffs' 22, from the emessage was was created, is it likely was around the time that the Llama 2 f models was released? It looks almost two months before

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	Page 325		Page 327
1	Input/output example Bates Number Meta Kadrey	1	A. Yes.
2	00054521, was marked for identification.)	2	Q. So the model is asked:
3	MR. WEINSTEIN: 54521, I think.		
4	MR. YOUNG: I think counsel might be		
5	correct. 54521, that's right. Thank you,	5	Right?
6	Counsel?	6	A. That's the user input here, yes.
7	BY MR. YOUNG:	7	Q. And the model responds, right, the
8	Q. Why don't you review the document to	8	model responds:
9	look through the document, and let me know when		and the same
10	you are ready.		
11	A. I have reviewed the document.		
12	Q. Do you recognize Plaintiffs' 24?	12	Right?
13	A. I recognize it to be another example	13	A. That's the first part of the output.
14	of input and output.	14	Q. Yep. Then it goes on:
15	Q. Do you recognize this as one of the		Z. Tep. Then is goes on:
16	PNGs that you shared in Plaintiffs' 23?		
17	A. I don't recall precisely.		
18	MR. YOUNG: Let's mark Plaintiffs'		
19	24A, the metadata associated with Plaintiffs'	19	Do you see that?
20	24.	20	A. Yes, I see that.
21	(Whereupon, Kambadur Exhibit 24A,	21	Q. Do you think that sentence that
22	Metadata associated with Exhibit 24, was	22	begins "however" is a true statement?
22	Miciadata associated with Exhibit 24, was	22	begins nowever is a true statement:
	Page 326		Page 328
1	marked for identification.)	1	MR. WEINSTEIN: Object to form.
2	BY MR. YOUNG:	2	A. This is clearly an example of what
3	Q. And let me know when you are ready,	3	we call a hallucination to mean.
4	Ms. Kambadur.	4	BY MR. YOUNG:
5	A. I am ready.	5	Q. Why do you think it's a
6	Q. Now, Plaintiffs' 24A is the metadata	6	hallucination?
7	for Plaintiffs' 24.	7	A. Because it's saying that the data is
8	Do you see the file name includes	8	not carefully curated, for example, and we were,
9	string numbers and the .PNG?	9	subjectively at least, carefully curating it.
10	A. Yes.	10	And it's also really has no way of knowing
11	Q. Do you see that that file name	11	also what data was used in the model. So it's
12	corresponds with the second file you shared in	12	making assumptions based on no real inputs.
13	your message of 11:44:20 in Plaintiffs' 22?	13	Q. Do you think it's true that the
14	A. It appears to be the same file name.	14	pre-training corpus may include copyrighted
15	Q. Does that suggest to you that	15	material?
16	Plaintiffs' 24 is the PNG file that you shared	16	A. Sorry. You are asking me?
17	the second PNG file that you shared in	17	Q. Let me back up.
18	Plaintiffs' 22?	18	Do you know what Llama model it was
19	A. That's what I would assume.	19	that was responding this way?
20	Q. Thank you.	20	A. As I mentioned, I don't know
21	So turning to Plaintiffs' 24, this	21	precisely what version of our model this was.
22	is one prompt output pair; is that right?	22	Q. Is it likely a version of what

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Page 331 Page 329 1 Llama 2 or what would become Llama 2? question. 1 2 2 A. When you say what would become Q. Do you agree that as a personal --Llama 2, I don't know precisely what you mean. as a general principle, it is your opinion that 3 3 4 Q. This was a Llama model, though, 4 copyrights should be respected? 5 5 right? A. Is it my opinion that copyright 6 should be respected? I believe that we should A. I think that depends how we brand б 7 7 the Llama model. It was a model we are working attempt to follow all of the relevant legal regulations when constructing, for example, a 8 on during the development of Llama 2. 8 9 9 Q. Okay. So there's a second half to large language model like the dataset. 10 the output, right? 10 O. The last sentence is: If you have 11 A. Yes. 11 any concerns about the legality in a particular Q. Okay. So it says: It is not 12 12 piece of content, I would advise against using it appropriate to use my capabilities to generate or as the basis for any further work. 13 13 14 promote pirated or illegal content. 14 Do you see that? 15 15 Right? A. Yes, I see that part of the output. 16 A. Yes, that's part of the output. 16 Q. Do you agree with the general 17 Q. Would you agree that it would be 17 principle that if you had the questions about the inappropriate to use a large language model to legality of a certain act, you should refrain 18 18 19 19 generate pirated or illegal content? from doing it? 20 20 MR. WEINSTEIN: Object to form. MR. WEINSTEIN: Object to form. 21 A. I am not sure what you mean exactly 21 A. Are you asking for specifically in 22 by "pirated or illegal content" in this context. the context of data or constructing -- I am Page 330 Page 332 1 BY MR. YOUNG: 1 sorry. Are you just asking a more broad 2 Q. If you could elicit pirated or 2 question? 3 3 illegal context from large language model, would BY MR. YOUNG: 4 you agree that that would be inappropriate? 4 Q. More generally. 5 5 MR. WEINSTEIN: The same objections. A. So more generally, if I have any 6 A. Not necessarily. 6 concerns about the legality of a particular piece 7 7 of content or just more generally if I have BY MR. YOUNG: 8 Q. The model goes on: It is important 8 questions about whether something is illegal? 9 to respect the rights of creators and adhere to 9 Q. Whether something is illegal. 10 laws and regulations regarding intellectual 10 A. Sorry. So you're asking if I do not 11 property and other legal matters. 11 know for sure if something is illegal, should I 12 Right? Do you agree that ones 12 avoid doing it? Q. Yes. 13 13 should respect the rights of creators and adhere 14 to laws and regulations regarding intellectual 14 MR. WEINSTEIN: Just caution the 15 15 property and other legal matters as a general witness, he is not asking you for any 16 communications you had with counsel. He is 16 principle? 17 A. It's a good general principle, but 17 asking for your personal opinion. So exclude 18 it's important to be precise. 18 from your answer any communications you may 19 Q. Does that include respecting 19 have ever had with counsel. 20 copyrights? 20 A. I want to be really precise because 21 A. Are you asking my personal opinion 21 this is a very confusing question. But I would 22 about copyrights or -- I don't understand the say if there is some action that I want to or

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	D 225
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1 need to take and I am not sure about the legality	1 business phone?
2 of it, I may still take that action because there	A. Yes.
3 are many, many laws and it's very complicated to	3 MR. YOUNG: Okay. I pass the
4 understand all of them. For example, I have	4 witness.
5 heard some outdated laws on the books where women	5 MR. WEINSTEIN: No questions from
6 cannot walk around in certain cities. So there's	6 our side.
7 some time it's a complicated question, I would	We want to designate the transcript
8 say.	8 as highly confidential attorneys' eyes only
9 Q. Fair enough. Thank you.	9 under the protective order.
10 Touching back to Plaintiffs' 22, do	10 (Whereupon, a request for Designate
11 you recall the very first message before you	transcript as highly confidential attorneys'
12 shared those images? Do you recall you were	eyes only under the protective order was
13 saying: Any chance we can fix this behavior?	made.)
14 Right?	MR. WEINSTEIN: The exhibits
15 A. It looks like that's what I typed.	retain existing designations.
16 Q. Why did you want to fix that	Designate transcript as highly
17 behavior?	confidential attorneys' eyes only, and the
18 A. Generally, we were trying to avoid	exhibits retain their existing confidential
19 hallucinating in our model outputs.	19 designations.
Q. Could it be that you wanted to fix	MR. YOUNG: Thank you very much,
21 that behavior because maybe what the model was	21 Ms. Kambadur for your time today. I
22 saying was true?	22 appreciate it.
Page 334	Page 336
1 MR. WEINSTEIN: Object to form.	1 THE VIDEOGRAPHER: The time right
2 A. As I mentioned earlier, I think 3 there is at least my understanding reading	 now is 5:43 p.m. We are off the record. COURT REPORTER: You're getting the
 there is at least my understanding reading this now, there's definitely inaccuracies in 	4 rough?
5 this. And I mentioned the term "hallucination,"	5 MR. WEINSTEIN: Rough.
6 so I can only guess that I was referring to	6 MR. YOUNG: Rough.
7 wanting to fix this hallucination.	7 MR. WEINSTEIN: Expedite three days,
8 BY MR. YOUNG:	8 whatever they want.
9 Q. Okay. So do you see there's a	9 MS. STAMESHKIN: I honestly wouldn't
	10 mind do you have next day or is three days
	the fastest?
	12 MR. WEINSTEIN: Because we're just
	going to get another one of these in, what,
	two days so daily.
	15 MR. YOUNG: Daily.
	16 (Time noted: 5:43 p.m. EDT)
	17
17 do and have two phones?	18
•	
18 A. Yes.	19
18 A. Yes.	19 20
18 A. Yes. 19 Q. Do you use both phones for business	
18 A. Yes. 19 Q. Do you use both phones for business 20 purposes?	20

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1	CERTIFICATE OF SHORTHAND REPORTER NOTARY PUBLIC	1 Digital Evidence Group, L.L.C.
2	I, Monique Cabrera, the officer	1730 M Street, NW, Suite 812
3	before whom the foregoing deposition was	2 Washington, D.C. 20036 (202) 232-0646
4	taken, do hereby certify that the foregoing	3
5	transcript is a true and correct record of	4 SIGNATURE PAGE
6	the testimony given; that said testimony was	Case: Richard Kadrey, et al. v. Meta Platforms, Inc.
		Witness Name: Melanie Kambadur
7	taken by me stenographically and thereafter	Deposition Date: September 17, 2024
8	reduced to typewriting under my direction;	I do hereby acknowledge that I have read
9	and that I am neither counsel for, related	7 and examined the foregoing pages
10	to, nor employed by any of the parties to	of the transcript of my deposition and that:
11	this case and have no interest, financial or	8 9 (Check appropriate box):
12	otherwise, in its outcome.	() The same is a true, correct and
13	IN WITNESS WHEREOF, I have hereunto	10 complete transcription of the answers given by
14	set my hand this 17th day of September, 2024.	me to the questions therein recorded.
15	,	11 () Except for the changes noted in the attached Errata Sheet, the same is a true,
16		12 correct and complete transcription of the
		answers given by me to the questions therein
17		14 recorded.
18		15 16
19	MONIQUE CABRERA	17 DATE WITNESS SIGNATURE
20	Notary Public in and for the State of New York	18
21	County of Suffolk	19
	My Commission No.	20 21
22	Expires: 06/12/2026	22 DATE NOTARY
		22
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1		
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